1992

The Uniform Soybean Tests: Northern Region 1992

J. R. Wilcox
USDA-ARS

THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

1992

Coordinated by:

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INTRODUCTION

The purpose of the Uniform Soybean Tests is to critically evaluate the best of the experimental soybean lines developed by federal and state research personnel in the U.S. and Canada, for their potential release as new varieties.

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains for the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued separately.

Data from the Uniform Soybean Tests form the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to evaluate the experimental strains at a limited number of locations for one year before they are entered in the Uniform Tests. Uniform Tests are grown at a larger number of locations with more replications than Preliminary Tests.

The Uniform Soybean Test Report is a progress report containing statements which may or may not be verified by subsequent experiments. Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

The USDA-Agricultural Research Service does not vouch for the authenticity of either the parentage or ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in the Uniform Soybean Test Report.

POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

1) Experimental lines entered in the Uniform Tests (including Preliminary Tests) must be free of restrictions on their potential release as varieties or their use as parents in biparental crosses or as parents in recurrent selection programs.

2) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research.

1) Seed of Uniform Test entries is for testing purposes only and may not be distributed to non-participants in the test without the approval of the originator of the entry.

2) Entries in the Uniform Test may be used by test participants as parents only in biparental crosses or in developing recurrent selection populations.

3) The originator of a Uniform Test entry must be contacted prior to the use of any entry as a recurrent parent in backcrossing or in any breeding or genetic studies.

4) Experimental strains entered in the Uniform Tests should be labelled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.

Release of Uniform Test entries.

1) Entries in the Uniform Test are released according to USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government policies.

2) Any state or province participating in the Uniform Test is offered the opportunity to participate in the release of any Uniform Test entry proposed for release.

3) Entries may be released on a restricted basis or on a contractual basis only after Uniform Test participants have been offered the opportunity to participate in the release of the entry.

4) Restricted or contractual releases cannot impose any restrictions on the prior use of an entry as a parent by Uniform Test participants.

STRAIN DESIGNATION

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experimental station agronomists cooperating with the U.S. Department of Agriculture.

A	Iowa A.E.S. (AC - S. Cianzio, AM - L. Mansur)
Ar	Arizona A.E.S.
Au	Alabama A.E.S.
B	California
C	Purdue (Indiana) A.E.S.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, U.S.D.A.
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC - R. L. Cooper, HM - B. A. McBlain, HS - S. K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (L - R. L. Bernard, LG - R. Nelson, LL - S. M. Lim, LN - C. D. Nickell)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
Ok	Oklahoma A.E.S.
ORC	Ridgetown College, Ontario
OT	Central Experimental Farm, Ottawa, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
S	Missouri A.E.S.
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
SL	Two or more states cooperatively
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, U.S.D.A., Urbana, IL
U	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.

METHODS

Uniform Tests are planted in multiple-row plots with three or four replications and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots (the center rows harvested) with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. At the Soybean Workers Conference in Memphis, Tennessee, on February 24 and 25, 1976, the Northern Breeders discussed and made the following recommendation: Only data from bordered row plots will be included in the regional means. Yield means will not be included in regional means if they do not have a CV value. Discretion will be used when including values that have a high CV. If the CV value is high (greater than 15), participants should include the reason, such as disease or environmental conditions. Lines will be allowed to be heterogeneous the first year in the Uniform Soybean Tests but must be a pure line the second year of testing. It is up to the breeder to clean up heterogeneous lines. If the breeder plans on purifying the line, please so indicate, and the line will be marked so when test participants vote on it for further testing they will know it will be purified.

Generation Composited is the generation after the final single-plant selection in which the line is composited.

Previous Testing. The number of previous years in the same Uniform Test is given, or, in the case of new entries, a reference to last year's test, abbreviated UT 0 for Uniform Test 0, PT III for Preliminary Test III, etc.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre (to convert to kilograms/hectare multiply by 67.25).

Maturity is the date when 95% of the pods have ripened. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier (E)and one later (L) check variety are given on the maturity table for each test. Current reference and check varieties and the maturity group limits relative to the reference varieties are:

Group	Reference	Range	Early Check	Late Check
00	McCall	-7 to +5		Agassiz (L)
0	Lambert	-6 to +2	Agassiz (00)	Parker (I)
I	Parker	-4 to +4	Lambert (0)	Sturdy (L)
II	Kenwood	-4 to +4	Sturdy (I)	IA2007 (L)
III	Resnik	-4 to +4	IA2007 (II)	Flyer (IV)
IV	Spencer	-4 to +7	Flyer (E)	Spry (L)

These maturity group ranges are based on long-time means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures.

Lodging is rated at maturity according to the following scores:

1 Almost all plants erect.
2 All plants leaning slightly or a few plants down.
3 All plants leaning moderately (45^{o}), or 25% to 50% of the plants down.
4 All plants leaning considerably, or 50% to 80% of the plants down.
5 Almost all plants down.

Height is the average length in inches of plants from the ground to the tip of the main stem at the time of maturity. (To convert to centimeters, multiply by 2.54).

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. (Threshing or handling damage is not considered, nor is mottling or other pigment).

1 Very Good 2 Good 3 Fair 4 Poor 5 Very Poor

Seed Size (i.e., weight per seed) in grams per 100 based on a 100- or 200-seed sample. (To convert to seeds per pound, divide this into 45,359.2).

Seed Composition is measured on samples submitted to the National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured using infrared reflectance.

Descriptive Code: 1 2 3 4 5 6, abbreviated as underlined below:

1 - Flower Color: Purple, White
2 - Pubescence Color: Tawny, Gray, Light tawny
3 - Pod Color: Brown, Tan
4 - Seed Coat Luster: Dull, Shiny, Intermediate
5 - Seed Coat Color: Yellow, Gray, Light gray, Green
6 - Hilum Color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow; prefixes indicate Light or Dark shades, e.g., Lbf - light buff, Dib - dark imperfect black.
7 - Stem termination: Determinate, Indeterminate, Semi-Determinate

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

1 No shattering
2 1% to 10% shattered
3 10% to 25% shattered
4 25% to 50% shattered
5 Over 50% shattered

Iron Chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence Score is related to hypocotyl elongation and is measured at Ames, Iowa by germination at 25°C (a critical temperature for differentiating strains). Four replications of 25 seeds/entry are planted in a 5-inch plastic pot, at a 4 1/2 - inch depth in sand. Only the seedlings which have emerged by 12 days after planting are counted. Emergence score in relation to % of seeds which germinate and emerge are as follows:

1 $\geq$ 95%
2 - 91 - 95%
3 - 85 - 90%
4 - 76 - 84%
5 < 76

DISEASE

Disease reactions are listed according to "Soybean Disease Survey Standards", March 1960, unless otherwise specified. Disease reaction is scored from 1 (no disease) to 5 (very severe), or in some cases as percent infected or simply as + (present) or 0 (absent). Purple seed stain and seed mottling follow the disease severity class rating:

Disease severity class rating	1	2	3	4	5
Number of diseased seed in sample	0	1-3%	4-8%	9-19%	20-100%

An additional classification to describe the extent of seedcoat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week delayed ("d") harvest sample. The location where the test was made is identified in the column heading, and the letter "a" or "n" signifies artificial or natural infection. Clearcut and consistent reactions are given by letter instead of number: R = resistant, S = susceptible, I = intermediate, and H = heterogeneous. Natural infection ratings are from agronomic tests in some instances and from special disease planting in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

Abbreviation	Disease	Pathogen
BB	Bacterial blight	*Pseudomonas syringa* pv. *glycinea*
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	*Xanthomonas campestris* pv. *phaseoli*
BS	Brown spot	*Septoria glycines*
BSR	Brown stem rot	*Phialophora gregata*
BTS	Bacterial tan spot	*Corynebacterium flaccumfaciens*
CN	Cyst nematode	*Heterodera glycines*
CR	Charcoal rot	*Macrophomina phaseolina*
DM	Downy mildew	*Peronospora manshurica*
FE_1, FE_2	Frogeye, race 1, 2	*Cercospora sojina*
PM	Powdery mildew	*Microsphaera diffusa*
PR	Phytophthora rot	*Phytophthora megasperma* f. sp. *glycinea*
PS	Purple stain	*Cercospora kikuchii*
PSB	Pod & stem blight	*Diaporthe phaseolorum* var. *sojae*
Pyd	Pythium root rot	*Pythium debaryanum*
Pyu	Pythium root rot	*Pythium ultimum*
RK	Root knot nematode	*Meloidogyne spp*.
RP	Rhizoctonia root rot	*Rhizoctonia solani*
SB	Sclerotial blight	*Sclerotium rolfsii*
SC	Stem canker	*Diaporthe phaseolorum* var. *caulivora*
SDS	Sudden Death Syndrome	
SMV	Soybean mosaic	*Soja* virus 1
TS	Target spot	*Corynespora cassiicola*
WF	Wildfire	*Pseudomonas syringae* pv. *tabaci*
YMV	Yellow mosaic	*Phaseolus* virus 2

Ratings for BB, BP, DM, FE_2, and PM are based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

Tolerance rating categories for Phytophthora are as follows:

1 = No root rot, very vigorous.
2 = No root rot, better than average vigor.
3 = No root rot, average vigor.
4 = No root rot, slight stunting.
5 = Up to 10% dead plants, slight stunting.
6 = Up to 20% dead plants, moderate stunting.
7 = Up to 50% dead plants, moderate to severe stunting.
8 = More than 50% dead plants, severe stunting.
9 = All plants died before flowering.
10 = Plants did not emerge or died soon after emergence.

The percent purple stain and Phomopsis seed infection is based on a 100-seed sample placed on potato-dextrose agar in petri plates.

The percent green seed is based on a 100-seed sample and is the number of seed with a green or partially green seedcoat.

Abbreviations used in sudden death syndrome (SDS) ratings are as follows:

R6Date - Days from planting to R6 growth stage
R6DI - SDS Disease Incidence (% of plants with symptoms)
R6DS - SDS Disease Severity (1=mild yellow flecking, 5=severe leaf scorch, 9=premature plant death)
R6DX - SDS Disease indeX (R6DI x R6DS/9)

HYDROPONIC SENCOR TOLERANCE

Metribuzin tolerance tests were conducted by the Mobay Corporation. Uniform test entries were evaluated for reaction to SENCOR in a hydroponics test. Entries were placed into one of three groups:

1) Above Normal Tolerance - strains consistently showing the greatest tolerance to SENCOR.
2) Normal Tolerance - strains showing good tolerance to SENCOR.
3) Sensitive - strains showing the least tolerance to SENCOR where use of SENCOR is not recommended

Within each tolerance group, strains were ranked according to their tolerance to metribuzin with tolerance decreasing from top to botton as strains moved down the list. Strains falling into the same vertical bracket showed equal tolerance. Commercial varieties with known tolerance were included as "marker" varieties to determine accuracy of the test. **The results are based on a single test and additional greenhouse/or field tests are recommended to accurately determine the tolerance of the strains to metribuzin.**

Tolerant	Normal	Normal	Normal	Sensitive
Essex*	C1842	M88-107	ORC9006	Agassiz[x]
K1191	C1841	M88-210	LN88-9242	SL88-621
Spry	HC86-3403	M87-1703	HM8990	ND88-800
K1213	Bragg*	Ripley	HC89-5467	ND86-22
Ky88-1195	Jack	Sturdy	SL88-581	H1265*
	IA2007	ND88-1942	HC86-554	Maple Ridge
	Resnik	ND88-1925	HC85-607	Coker 156*
	C1804	LN88-9709	HC85-603	M88-526
	HS89-2840	Delsoy 4210	HC85-618	
	HC78-676-3	U90-2226	LN88-7616	
	C1832	U90-2607	M88-712	
	M87-1569	LN88-1674	M88-782	
	C1834	LN88-1682	LS87-1311	
	HC85-6571	U8763041	Tracy*	
	Ky88-5037	U90-2434	OT87-7	
	HS89-2839	Kenwood	LN87-1744	
	HC78-676-2	HC87-3330	LS87-1123	
	Flyer	U89-2035	LS86-1922	
	HS88-4906	M88-79	LN88-10534	
	SL89-314	S86-4499	M86-356	
	E88550	U90-2310	OT90-7	
	HS88-4909	K1200	M87-180	
	HS88-4905	M86-1973	M87-170	
	C1845	LN88-9900	M88-788	
	ND88-1856	M88-84	M84-2051	
	LN87-2112	AM90-211003	M88-857	
	A3659*	Lambert	M88-829	
	A Kenwood BC	AM90-111022	McCall	
	HC78-676-13	LN86-3357	M88-626	
	MD88-5241	Parker	Amsoy 71*	
	Union*	AM90-111004	M87-160	
	Williams 82*	AC90-115043	M87-731	
	ND88-1387	ORC9008	ND88-523	
	ND88-1657	OT91-3	Agassiz[x]	
	Corsoy*	ORC9002	LS88-519	
	C1851	U90-2711	S86-4496	
	ORC8905	SL87-2263	ND88-597	
	Spencer	LS88-240	M87-330	
	ND88-1860	LS88-213	ND88-599	
	ORC9004	SL88-649	ND88-709	
	HC87-3212	LN88-1469	ND88-686	
	M86-1322	K1212		
	M87-642	HC86-278		
	M87-1621	M88-25		
	Charleston			
	S88-19561			

* Check Varieties
[x] Agassiz in list as both Normal and Sensitive

PROCEDURE FOR TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests, Northern Region, has been agreed upon by public soybean breeders. The policy was developed to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and in foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the Agricultural Research Service, U.S. Department of Agriculture. The tests are divided into those in the Northern Region, for strains in maturity groups 00 to IV, and those in the Southern Region, for strains in maturity groups V to VIII. Group IV maturity strains are divided into a IV N test for the northern region and a IV S test for the southern region.

Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests. Strains entered in these tests must have been evaluated by the breeder in a minimum of three environments of replicated yield tests. Strains developed by four or more backcrosses to a released cultivar may be entered without prior yield evaluations.

Strains are evaluated for one year in the Preliminary Tests (PT) which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given an opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly in the UT without prior evaluation in the PT. Strains evaluated in Regional Cyst Nematode (SCN) Tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is generally initiated by the institution that developed the strain.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may become the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

Where a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains. By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a States Experiment Station's policy. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained from Dr. P.A. Miller, USDA, ARS, National Program Leader, Fiber, Oil & Tobacco, Room 207A, Bldg. 005, BARC-West, Beltsville, MD 20705 (Ph. 301-504-6725). The office for clearance of proposed names of new soybean cultivars is: Mr. James P. Triplett Chief, Seed Regulatore & Testing Branch Livestock and Seed Division, AMS/USDA, Bldg. 506, BARC-East, Belsville, MD 20705-2350 (phone 301-504-9430). The date for simultaneous publicity release on the new cultivar by participating states usually is August 1, but the date may be delayed until April 1 of the following year if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data are being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT including private plant breeders, for testing and for crossing if this distribution has not been made previously.

UNIFORM TEST STRAINS RELEASED IN 1992

Variety	Exp. Desig.	Uniform Test Evaluations
Alpha	M85-610	SCN I 1988-1991, UT I 1989-1991
Agassiz	M84-456	UT 00 1988-1991
Charleston	HC85-6724	PT IIIB 1988, UT III 1989-1992
Holt	U87-63041	PT I 1989, UT II 1990-1992
Lambert	M84-748	UT 0 1988-1992
Lancaster	U86-62062	PT IIIB 1989, UT III 1990-1991
Parker	M84-916	PT I 1988, UT I 1989-1992
Thorne	HM8890	PT IIIA 1989, UT III 1990-1992

Variety	Release Date	Releasing States	Found. Seed Production
Alpha	February 14, 1992	MN	1991
Agassiz	February 14, 1992	MN, ND	1991
Charleston	August 1, 1992	IA, MO, OH	1992
Holt	August, 1992	NE	1992
Lambert	February 14, 1992	MN, ND, SD	1991
Lancaster	August, 1992	NE	1992
Parker	February 14, 1992	MN, SD, WI	1991
Thorne	August 1, 1992	IL, OH	1992

1992 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	U.T.	P.T.
IA	Ames	R. Ruff	PR_4	I-III	I-III
	Ames	W. R. Fehr	Emergence	I-IV	
	Boone	R. Ruff	BSR	I-III	I-III
	Hanska	W. R. Fehr	Iron Chlorosis	00-IV	I
IL	Cora	P. Gibson	SDS Data	III-IV	
	Urbana	C. D. Nickell	SDS	III-IV	
	Urbana	C. D. Nickell	PR_1	II-IV	II-IV
IN	Lafayette	T. S. Abney & T. L. Richards	PS, PSB, SMV	I-IV	I-IV
	Lafayette	T. S. Abney & T. L. Richards	Germination	I-IV	I-IV
	Lafayette	J. R. Wilcox	PR_7	00-IV	00-IV
KS	Manhattan	W. T. Schapaugh, Jr.	Shattering	III-IV	III-IV
OH	N.W. Branch	A.Schmitthenner	PR Tolerence	II-IV	II-IV
TX	Lubbock	R. D. Brigham	Shattering	III-IV	

UNIFORM TEST LOCATIONS - 1992

	Location	Tests Conducted By:	Uniform Tests 00	0	I	II	III	IV	Preliminary Tests I	II	III	IV
DE	Georgetown	B. Uniatowski					X	X				
IA	Ames	W.R. Fehr				**X**				**X**		
	Arcadia	W.R. Fehr				X						
	Fairfield	W.R. Fehr					X				X	
	Grand Junction	W.R. Fehr				X				X		
	Greene	W.R. Fehr			X							
	Humboldt	W.R. Fehr			**X**				**X**			
	Royal	W.R. Fehr			X				X			
	Tingley	W.R. Fehr					X					
	Winterset	W.R. Fehr					**X**				**X**	
IL	Belleville	M. Schmidt						X				X
	Cora	M. Schmidt						X				
	Dewight	C.D. Nickell				X						
	Gibson City	C.D. Nickell				X						
	Ridgway	C.D. Nickell					X	X				
	Urbana	C.D. Nickell				**X**	**X**	**X**		**X**	**X**	**X**
IN	Bluffton	J.R. Wilcox				X	X					
	Lafayette	J.R. Wilcox			X	**X**	**X**	X		**X**	**X**	
	Vincennes	J.R. Wilcox					X	X				X*
KS	Manhattan	W.T. Schapaugh					**X**	**X**			**X**	**X**
	Ottawa	W.T. Schapaugh						X				
	Powhattan	W.T. Schapaugh					X					
	Topeka	W.T. Schapaugh					X	X				
KY	Lexington	T. Pfeiffer						**X**				**X**
MD	Queenstown	W.J. Kenworthy & P.B. Creegan					X	X				X
MI	Britton	J. F. Boyce				X						
	East Lansing	J. F. Boyce			**X**	X			**X**	X		
	St. Charles	J. F. Boyce			X							
MN	Crookston	J.H. Orf	**X**									
	Lamberton	J.H. Orf			X	X			**X**			
	Moorhead	J.H. Orf	**X**									
	Morris	J.H. Orf		**X**								
	Rosemount	J.H. Orf		**X**								
	Shelly	J.H. Orf	**X**									
	Waseca	J.H. Orf			X	X			X			
MO	Columbia	P. Owen					X	X			X	X
	Grand Pass	P. Owen					X					
	Portageville	S.C. Anand						X				
	Spickard	P. Owen				X						

* Vincennes PT IVA only

UNIFORM TEST LOCATIONS - 1992

Location		Tests Conducted By:	Uniform Tests 00	0	I	II	III	IV	Preliminary Tests I	II	III	IV
NE	David City	L. Korte			X	**X**	X			**X**	X	
	Falls City	&G. Graef					X	X				
	Hartington				X	X				X		
	Ord	L. Korte				X						
	Tekamah	&G. Graef					X				X	
NJ	Adelphia	J.R. Justin				X	X	X		X		
ND	Casselton	T. Helms	**X**	**X**								
OH	Hoytville	R. Fioritto ~~B.A. McBlain~~				X	X			X	X	
	Mt. Orab	S. St. Martin					X	**X**				**X**
	S. Charleston	R.L. Cooper					X	X			X	X
	Wooster	~~B.A. McBlain~~ R. Fioritto				X	X					
ONT	Chatham	G.R. Ablett								X		
	Dutton	G.R. Ablett			X							
	Elora	P. Gostovic	X									
	London	P. Gostovic			**X**							
	Ottawa	H.D. Voldeng	X	X								
	Ridgetown	G.R. Ablett				X						
	Woodslee	R.I. Buzzell				X						
	Woodstock	P. Gostovic		X								
PA	Landisville	J.O. Yocum					X	X				
	St. College	J.O. Yocum			X	X						
TX	Lubbock	R.D. Brigham						**X**				
SD	Beresford	R. Scott ~~J.J. Bonneman~~				X				X		
	Brookings	~~J.J. Bonneman~~			**X**	X			**X**			
	Elk Point	~~J.J. Bonneman~~					X					
	Watertown	~~J.J. Bonneman~~		X	X							
WI	Arlington	E.T. Gritton			**X**	X			**X**	X		
	Spooner	E.T. Gritton		**X**								
X	Location with Agronomic Data		6	7	16	25	25	20	7	12	10	9
X	Location With Seed Compostion Data		4	4	5	4	4	5	5	4	4	4

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
A1	Anoka x Mack
A2	M63-17 x C1453
A7	Selection from AP9
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A74-204034	M62-263 x Amsoy 71
A75-204018	IVR Ex4731 x Wirth
A75-305022	Wye x (Amsoy x Wayne)
A75-332035	L15 x AP68-1016
A76-103002	AP6
A76-202015	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-211021	Beeson x A72-507
A79-136012	Pride B216 x Land O' Lakes 4102
A80-244003	Northrup King S1492 x Pella
A80-244036	A74-204034 x Cumberland
A80-344003	A75-332035 x Century
A81-151026	A75-204018 x Century
A81-155014	A76-202015 x A76-304020
A81-356022	Century x A76-304020
A82-161034	A76-103002 x A77-211021
A82-263010	A77-211021 x Pella
A82-267015	AP6MTW 2YT (F4) C2
A83-271027	Northrup King S1492 x Asgrow A3127
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
Agripro AP2190	CFS2000 x K464
Agserv 8780	Unknown
AP6	40 lines intermated (Crop Sci.15:739, 1975)
AP9	Iron-def. chlor. resis. (Crop Sci.20:677, 1980)
AP68-1016	Clark(5) x PI 84.946-2
Asgrow A1564	Hark x C1453
Asgrow A1937	Hodgson 78 x Wayne
Asgrow A2932	Unknown
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127
Asgrow A3427	X3836 x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A3966	Williams x Essex
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A5149	Asgrow A3860 x N72-3058
BK 22-1-3	Unknown
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1426	C1253 x Kent
C1453	C1266R x C1253

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
C1528	Calland x L63-1397
C1640	Century M2 fan (low 18:3)
C1678	Hobbit x Lakota
C1699	L73-4673 x Pella
CFS2000	C1426 x Amsoy Phyt.4
Co69-119	Coker Hampton 266 x Bragg
Coker 237	Hutton x N63-858
Coker 425	Co69-119 x Essex
CX750-82	Harcor x Hodgson
CX889-10	Williams 82 x CX750-82
CX981-131	HW79015 x Sparks
D49-772	Roanoke x N45-745
D49-2491	S-100 x CNS
D49-2510	S-100 x CNS
D49-2525	S-100 x CNS
D51-4877	Roanoke x N45-745
D53-184	D49-2525 x L46-5679
D53-354	D49-2525 x L46-5679
D54-2437	N48-1394 x L6-5679
D55-4073	Volstate x Biloxi
D55-4168	Ogden x Biloxi
D56-4065	Lee(2) x PI 163.453
D58-3358	Jackson (4) x D49-2491
D59-9289	D51-4877 x D55-4168
D60-9647	FL31745 x D49-2510
D63-6100	Hill(4) x PI 171.442
D65-2262	D54-2437 x PI 261.467
D66-12392	D63-6100 x Dyer
D68-18	Dyer x Bragg
D75-10169	Govan x F4(Bragg x PI 229.358)
D83-2886	D65-2262 x Forrest
Dairyland DSR-171	Wayne x Hark
Dairyland DSR 304	Williams x Unknown
Dekalb 226	Unknown
Dekalb Pfizer CX415	Unknown
E84108	Sprite x Hardin
F55-224	D49-772 x Improved Pelican
F58-5788	D49-2491(3) x Biloxi
F65-1376	(F55-224 x D55-4073) x F58-5788 x D56-4065)
FFR561	Essex x Experimental selection
GL2643	Unknown
GR8936	Asgrow A3127 x L24A
HC74-634RE	Williams x Ransom
HC74-3400	Williams x Ransom
HC78-279	L72U-2567 x Essex
HC78-350	L72U-2567 x Essex
HC78-354	L72U-2567 x Essex
HC78-676	L70T-543G x L74D-619
HC78-676BC	HC78-676(6) x Williams 82
HC79-478	L70T-543G x L74D-619

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
HC80-585	HC74-3400 x Sprite
HC80-1944	L73U-632 x Elf
HC80-1946	L72U-2567 x Elf
HC84-553-1	Hobbit x K74-104-76-205
HM8472	Asgrow A3127(4) x Williams 82
HM8477	Dawson x K79-1
HM8572	(Hardin x Williams 82) x [Asgrow A3127 x (A72-507BC x K10)]
HM8580	HW79116 x HW79149
HS84-6224	HW79015(2) x HW79149
HS84-6276	Harper(3) x Williams 82
HW79015	A72-512 x Oakland
HW79116	Cumberland x Pella
HW79149	[A72-507(6) x A1] x [A72-507(5) x PI 82.263-2]
HW8221	A76-202015 x (Tracy x Williams)
HW8372	Pride B216 x K-9
IVR Ex4731	Amsoy x Wayne
J74-5	Forrest x (D68-18 x PI 88.788)
J-231	Unknown
Ja53-1	Selection from Japanese variety
Ja53-7-6	Selection from Japanese variety
Jacques J822	Unknown
K-9	Tracy x Williams
K10	Tracy x Williams
K74-104-76-205	Tracy x Williams
K74-114-75-000	Tracy x Bonus
K79-1	Williams x D60-9647
K464	Beeson x Hark
KG 60	Pride B216 x BK 22-1-3
L6-5679	Lincoln x Richland
L15	Wayne(6) x Clark 63; Rps1 isoline
L16	Chippewa I r Rps1 rxp
L24A	Williams(7) x Kingwa
L46-5679	Lincoln x Richland
L57-0034	Clark x Adams
L61-2193	Sioux x Harosoy
L61-2196	Sioux x Harosoy
L62-535	Harosoy(6) dt1 x T145
L63-1397	Harosoy Dt2 x PI 80.837
L66-531	[Clark(6) x PI 86.024] x [Clark(6) X T175]; dt1, E1, t, e2 isoline
L66-1322	(Sel. from Hawkeye x Lee) x (Sel. from Hawkeye x Lee)
L66L-140	Wayne x L57-0034
L66L-154	Wayne x L57-0034
L69-202	L61-2193 x L61-2196
L69L-3	L66-531 x L62-535
L69U37-17-5	Calland x Corsoy
L70-2283	Custer x L16
L70T-543G	L15 x Amsoy 71

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
L71-3628	L66-1322 x L62-535
L72U-2567	Williams x Ransom
L73-4124	D66-12392 x L69L-3
L73-4673	Corsoy x L66L-154
L73U-632	Miller 67 x L66L-140
L74D-619	Williams x Ransom
L74D-634RE	Williams x Ransom
L75-8020	Williams x L70-2283
L77-443	Union x L75-8020
L77-808	Williams x PI 87.631-1
L77-906	Williams x PI 209.332
L77-1836	Williams(7) Rps1-b x Harrel
L78-189	Corsoy(8) x Kingwa
L78-8694	L71-3628 x Elf
L78L-449	L73-4124 x Essex
L80-4323	Williams(2) x PI 88.788
L81-4583	Williams(5) x PI 157.440
Land O Lakes 4102	(Mack x [Wayne x (Clark a Adams)]) x Cutler
LN78-257	Union x C1528
LN80-9729	Hardin x A76-304020
LN80-10508	Century x Land O Lakes 'Max'
LN81-1029	K74-114-75-000 x Pella
LNX8519	LN81-1029 x Asgrow A2943
LS77-952	Essex x Clark 63
LS78-W124-1	Franklin x J74-5
LS79-220	Forrest x V71-80
LS79-330	V71-480 x Forrest
M10	Lincoln(2) x Richland
M53-43	M10 x PI 180.501
M53-117	M10 x PI 180.501
M54-139	Renville x Capital
M54-240	[Lincoln(2) x Richland] x Korean
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-224	Merit x Harosoy
M62-263	Grant x M319W
M63-17	M402 x M406
M63-87	Chippewa x PI 261.475
M63-158	PI 261.475 x Pridesoy II
M63-194	Corsoy x PI 132.207
M63-217Y	Corsoy x M53-117; Y hilum sib of Hodgson
M64-3	Traverse x PI 196.163
M65-442	Anoka x Amsoy
M67-141	Corsoy x Wayne
M68-49-26	Evans x M59-120
M68-201	Evans x Steele
M68-303	M60-406 x Beeson
M69-20	Merit x Clay
M69-45	M63-158(Bf) x Provar
M69-122	(Ja53-1 x Hark) x (M59-120 x C1477)

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
M70-9	M64-3 x Amsoy 71
M70-127	Evans x M63-217Y
M70-128	Evans x M63-217Y
M70-187	Merit x SS65-5702
M70-271	Merit x M64-3
M70-294	Ja53-7-6 x M63-217Y
M70-417	M64-3 x M63-217Y
M70-447	Provar x M53-43
M70-484	M63-87 x M53-43
M70-597	Steele x AP68-1016
M71-38	Wilkin x M62-263
M71-148	Clay x Evans
M72-79	M62-263 x Wells
M72-136	M63-194(2) x M61-224
M74-498	Peterson PX20 x [Hodgson(4) Rpsl x Merit]
M75-2	Hodgson x [M67-141 x (Chippewa x Higan)]
M75-89	Corsoy x M68-303
M75-274	Evans x L70T-543
M76-50	M68-49-26 x McCall
M76-55	M69-20 x McCall
M76-151	M70-271 x Hodgson 78
M76-349	L69-202 x M69-45
M77-218	M71-135 x A2440
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-43	M70-417 x M69-122
M81-99	M70-9 x M68-201
M81-571	M70-484 x Dawson
M81-610	Dawson x M70-447
M82-556	Hodgson 78 x M69-45
M82-776	M68-49-26 x M70-597
M83-10	Evans x Ajma
M83-15	A2 x Hodgson 78
M83-18	A2 x Hodgson 78
M83-299	M72-79 x M72-136
M83-499	M71-38 x L78-189
M319W	Lincoln x Hawkeye
M402	Renville x Capital
M406	Harosoy x Norchief
N45-745	Ogden x CNS
N48-1394	Roanoke x N45-745
N63-858	D58-3358 x D59-9289
N72-3058	F65-1376 x Ransom
Northrup King S23-03	Pride B216 x Hodgson
Northrup King S27-10	[(Mack x Corsoy) x Pride B216(2)] x (NK S1346 x Mack)
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1474	Hark x Wayne
Northrup King S1492	Corsoy x Wayne
Peterson PX20	Blend 50% Wells : 50% P6122

IDENTIFICATION OF PARENT STRAINS, 1992

Strain	Parentage
Pioneer P9292	(Corsoy x Magna) x Williams
Pioneer P9471	Williams x Essex
Pride B152	Northrup King S1346(6) x Mack
Pride B216	Corsoy x Wayne
Pridesoy II	Unknown
PRX54-59	Harosoy x Altona
Ring Around RA452	Williams x Essex
RS2460P	Unknown
S56A	Unknown
SB 27	Unknown (Farmer selection)
SG1/BC/86-E1	SG1/NS/84-RM3/MS x 32 high yielding lines
SG1/BC/86-E2	SG1/BC/86-E1 x 50 high yielding lines
SS65-5702	Clark x [Scott(2) x Peking]
T145	Unknown
T175	Unknown
Tn83-7	Bedford x Crawford
U80-64032	L69U37-17-5 x Nebsoy
U83-63042	Nebsoy x Beeson
V63-76	Hill(5) x D53-354
V66-318	D53-184 x J22
V68-1034	York x PI 71.506
V71-480	V63-76 x V66-318

UNIFORM TEST 00, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Agassiz (L)	Simpson x M71-148	4	F5	Rps1
Maple Ridge	Fiskeby III x Evans	12	F5	
McCall (00)	(Acme x Chippewa) x Hark	18	F5	
M87-731	McCall x Altona	1	F4	Rps6
ND86-22	A7 x Maple Amber	-	F4	
OT87-7	(Maple Presto x Williams) x Weber	4	F5	
OT90-7	(PI 196.529 x Harosoy e3[4]) x McCall	1	F5	
SL87-2263	McCall x PI 470.930	-	F5	
SL88-621	M82-556 x M81-18	-	F5	Rps1

* Number of years in test or name of 1991 test.

UNIFORM TEST 00, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Hanska	Emerg. Score Ames	PR Lafayette Race 7
Agassiz (L)	PGBDYIbI	3.0	4	S
Maple Ridge	PTBDYYI	2.3	1	S
McCall(00)	PGBDYYI	2.5	1	S
M87-731	PTBDYBr+YI	2.8	3	S
ND86-22	PTBDYBrI	3.3	2	S
OT87-7	WTBDYBrI	2.3	5	S
OT90-7	PGTDYYI	3.3	2	S
SL87-2263	PGTDYYI	2.3	1	S
SL88-621	PGBDYYI	3.0	4	S

UNIFORM TEST 00, 1992

REGIONAL SUMMARY

No. of Tests / Strain	Yield 5 bu/a	Rank 5 No.	Maturity 6 Date	Lodging 6 Score	Plant Height 6 In	Seed Quality 6 Score	Seed Size 6 g/100	Composition Protein 4 %	Composition Oil 4 %
Agassiz (L)	34.1	2	1.2	1.4	30	2.0	12.3	38.7	19.0
Maple Ridge	27.4	9	-8.0	1.3	25	1.4	16.4	39.1	18.5
McCall(00)	28.5	7	09/23*	1.6	30	1.9	14.2	38.4	18.9
M87-731	29.7	6	-0.7	1.7	28	1.8	15.4	37.9	19.3
ND86-22	30.5	5	5.8	2.0	31	2.1	17.3	37.5	19.4
OT87-7	35.1	1	-1.7	1.3	29	1.6	14.7	37.9	20.6
OT90-7	34.1	2	-1.8	1.7	31	1.8	14.5	38.7	19.1
SL87-2263	27.6	8	-2.8	1.8	29	2.6	14.3	39.8	18.1
SL88-621	32.9	4	6.8	1.6	31	1.9	13.4	34.2	19.8

* 129.8 Days After Planting

1991-1992, 2-YEAR MEAN

Strain / No. of Tests	Yield 12 bu/a	Rank 12 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In	Seed Quality 12 Score	Seed Size 12 g/100	Composition Protein 9 %	Composition Oil 9 %
Agassiz (L)	31.4	3	3.6	1.5	28	2.1	12.9	39.4	19.7
Maple Ridge	26.0	6	-5.2	1.2	22	1.7	15.7	39.5	18.8
McCall (00)	28.6	5	9/10.5*	1.5	27	2.0	14.3	38.5	19.5
M87-731	31.2	4	1.8	1.8	27	2.0	15.3	39.0	19.4
OT87-7	32.6	1	-1.5	1.3	26	1.8	14.2	37.8	21.2
OT90-7	32.1	2	-1.3	1.6	28	1.9	14.6	39.0	19.6

* 115.1 Days After Planting

1988-1992, 5-YEAR MEAN

Strain / No. of Tests	34	34	30	35	35	34	34	22	22
Agassiz (L)	27.8	2	5.8	1.3	24	2.2	12.9	40.6	20.1
Maple Ridge	24.2	4	-6.8	1.2	20	2.2	14.3	40.4	18.9
McCall (00)	27.1	3	9/6.8*	1.4	24	2.3	14.0	39.4	19.8
OT87-7	29.5	1	-0.6	1.2	22	2.1	13.7	38.5	21.7

* 113.1 Days After Planting

UNIFORM TEST 00, 1992

YIELD (bu/a)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora* Ont.	Ottawa Ont.
Agassiz (L)	34.1	41.3	29.1	28.4	28.9	6.3	42.9
Maple Ridge	27.4	31.3	20.0	16.4	20.8	29.3	48.6
McCall(00)	28.5	32.3	30.6	22.4	25.3	16.7	31.9
M87-731	29.7	33.8	28.3	23.5	24.1	27.4	38.8
ND86-22	30.5	27.7	32.2	33.7	26.6	10.0	32.2
OT87-7	35.1	36.2	30.4	28.0	27.7	26.8	53.2
OT90-7	34.1	39.4	34.1	32.3	26.8	17.1	38.1
SL87-2263	27.6	32.9	27.5	26.1	18.4	14.8	33.0
SL88-621	32.9	30.1	32.5	28.6	30.1	10.6	43.1
C.V. (%)		16.8	17.6	19.5	12.8	---	9.0
L.S.D. (5%)		8.3	ns	9.0	5.2	---	5.0
Row Sp. (in.)		12	10	10	30	15	16
Rows/Plot		8	8	8	4	4	4
Reps		4	3	3	3	4	4

* Data Not Included in the Mean

UNIFORM TEST 00, 1992

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	Elora Ont.	Ottawa Ont.
Agassiz (L)	3	1	6	4	2	9	4
Maple Ridge	6	7	9	9	8	1	2
McCall(00)	8	6	4	8	6	5	9
M87-731	4	4	7	7	7	2	5
ND86-22	7	9	3	1	5	8	8
OT87-7	1	3	5	5	3	3	1
OT90-7	2	2	1	2	4	4	6
SL87-2263	9	5	8	6	9	6	7
SL88-621	5	8	2	3	1	7	3

MATURITY (date)

Strain	Mean 6 Tests						
Agassiz (L)	1.2	4	2	5	2	-7	1
Maple Ridge	-8.0	-7	-8	-2	-10	-15	-6
McCall(00)	09/23	09/13	09/12	09/12	09/12	10/25	10/05
M87-731	-0.7	2	0	6	2	-13	-1
ND86-22	5.8	6	8	8	8	0	5
OT87-7	-1.7	-3	1	3	2	-12	-1
OT90-7	-1.8	-1	-3	5	0	-10	-2
SL87-2263	-2.8	-5	-1	3	-5	-8	-1
SL88-621	6.8	10	9	11	11	-6	6
Date Planted	05/16	05/13	05/08	05/07	05/14	05/28	05/28
Days to Mature	129.8	123	127	128	121	150	130

UNIFORM TEST 00, 1992

LODGING (score)

Strain	Mean 6 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.
Agassiz (L)	1.4	1.0	1.0	1.3	1.0	1.9	2.2
Maple Ridge	1.3	1.0	1.0	1.0	1.0	1.3	2.2
McCall(00)	1.6	1.0	1.0	1.7	1.0	1.8	3.3
M87-731	1.7	1.0	1.0	1.7	1.0	1.9	3.7
ND86-22	2.0	2.5	1.0	1.3	1.0	2.1	4.0
OT87-7	1.3	1.0	1.0	1.7	1.0	1.3	1.6
OT90-7	1.7	1.0	1.0	1.7	1.0	1.4	4.1
SL87-2263	1.8	1.0	1.0	1.0	1.0	2.3	4.5
SL88-621	1.6	1.0	1.0	2.0	1.0	1.6	2.9

PLANT HEIGHT (inches)

Strain	Mean 6 Tests						
Agassiz (L)	30	32	24	24	27	33	38
Maple Ridge	25	25	21	22	21	30	32
McCall(00)	30	36	24	24	24	34	39
M87-731	28	34	25	23	22	32	32
ND86-22	31	34	26	24	24	33	42
OT87-7	29	26	24	24	24	35	38
OT90-7	31	35	25	22	29	35	40
SL87-2263	29	29	25	25	22	35	40
SL88-621	31	35	24	26	26	32	40

UNIFORM TEST 00, 1992

SEED QUALITY (score)

Strain	Mean 6 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.
Agassiz (L)	2.0	1.7	1.3	1.0	2.0	4.0	2.2
Maple Ridge	1.4	1.3	1.7	1.3	2.0	1.0	1.3
McCall(00)	1.9	1.7	1.3	1.0	2.0	3.0	2.1
M87-731	1.8	2.0	1.7	1.3	2.0	2.0	1.7
ND86-22	2.1	1.7	1.3	1.3	2.0	4.0	2.3
OT87-7	1.6	1.7	1.7	1.0	2.0	1.5	1.8
OT90-7	1.8	1.3	1.7	1.3	2.0	3.0	1.7
SL87-2263	2.6	2.0	1.7	1.3	2.0	4.0	4.5
SL88-621	1.9	2.3	1.3	1.0	2.0	3.5	1.5

SEED SIZE (g/100)

Strain	Mean 6 Tests						
Agassiz (L)	12.3	13.5	12.3	11.6	11.6	11.1	13.4
Maple Ridge	16.4	16.6	17.3	16.0	14.5	17.2	17.0
McCall(00)	14.2	13.5	13.7	12.8	14.0	15.9	15.3
M87-731	15.4	14.2	14.5	14.5	14.8	15.9	18.6
ND86-22	17.3	16.5	17.7	18.3	16.6	16.1	18.3
OT87-7	14.7	13.9	14.8	15.0	13.6	15.4	15.5
OT90-7	14.5	14.0	14.0	13.8	14.1	16.2	14.8
SL87-2263	14.3	14.0	14.3	14.1	14.4	13.9	15.2
SL88-621	13.4	12.4	13.6	12.4	12.8	14.3	15.0

UNIFORM TEST 00, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND
Agassiz (L)	38.7	39.0	39.2	35.9	40.6
Maple Ridge	39.1	37.5	40.8	36.0	42.2
McCall(00)	38.4	38.1	38.8	35.7	41.1
M87-731	37.9	37.2	38.8	35.3	40.3
ND86-22	37.5	36.5	38.7	36.1	38.5
OT87-7	37.9	35.8	38.6	37.8	39.4
OT90-7	38.7	37.4	39.0	36.8	41.7
SL87-2263	39.8	37.0	42.1	38.5	41.7
SL88-621	34.2	33.9	34.5	33.4	35.0

OIL (%)

Strain	Mean 4 Tests				
Agassiz (L)	19.0	18.8	18.9	19.6	18.6
Maple Ridge	18.5	18.9	18.0	19.3	17.8
McCall(00)	18.9	18.7	18.5	19.6	18.8
M87-731	19.3	18.7	19.7	19.5	19.3
ND86-22	19.4	18.7	19.0	19.8	19.9
OT87-7	20.6	20.8	20.4	20.7	20.4
OT90-7	19.1	19.4	19.0	19.0	18.9
SL87-2263	18.1	18.8	16.9	17.9	18.6
SL88-621	19.8	18.7	19.5	20.2	20.7

UNIFORM TEST O, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Agassiz (00)	Simpson x M71-148	UT 00	F5	Rps1
Lambert (0)	M75-274 x M76-151	4	F5	Rps1
Parker (I)	A79-136012 x Dawson	1	F5	Rps1
M84-2051	L81-4583 x McCall	-	F3	ti
M86-356	M81-610 x M76-349	2	F5	
M87-330	M76-55 x Ozzie	UT 00	F5	Rps1
M87-1569	M70-187 x L77-808	1	F5	Rps1 Het.
M88-25	BSR 101 x M82-776	-	F5	Rps1
M88-79	M83-15 x M82-776	-	F5	
M88-84	M83-15 x M82-776	-	F5	Rps1
M88-107	M81-27 x Sturdy	-	F5	Rps1
M88-210	M81-99 x Hardin	-	F5	Rps1
M88-526	M83-499 x M83-18	-	F5	Rps1-k
M88-626	M82-556 x M81-18	-	F5	Rps1
M88-712	M83-299 x M74-498	-	F5	Rps1
M88-782	Simpson x BSR 101	-	F4	Rps1
M88-788	Simpson x BSR 101	-	F4	Rps1
M88-829	Evans x Sturdy	-	F4	Rps1
M88-857	M81-43 x Simpson	-	F4	Rps1
ND88-523	Ozzie x Dawson	-	F4	
ND88-597	Ozzie x Dawson	-	F4	
ND88-599	Ozzie x Dawson	-	F4	
ND88-686	Evans x Bicentennial	-	F4	
ND88-709	Bicentennial x Swift	-	F4	
ND88-800	Evans x Maple Amber	-	F4	
ND88-1387	Corsoy 79 x Maple Isle	-	F4	
ND88-1657	Maple Isle x Swift	-	F4	
ND88-1856	PI 479.761 x Glenwood	-	F4	
ND88-1860	PI 479.761 x Glenwood	-	F4	
ND88-1925	Ozzie x Dawson	-	F4	
ND88-1942	Ozzie x Dawson	-	F4	
ORC 9002	A81-151026 x Elgin	1	F5	
OT91-3	(Maple Presto x Evans) x (OX611 x Maple Amber)	-	F4	dt2, ln
SL88-581	M76-50 x Proto	-	F4	Rps1
SL88-649	Ozzie x F1(McCall x Traff)	-	F5	

* Number of years in test or name of 1991 test.

UNIFORM TEST 0, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Hanska	Emerg. Score Ames	PR Lafayette Race 7
Agassiz (00)	PGBDYIbI	3.0	4	S
Lambert (0)	PGBSYBfI	3.0	2	S
Parker (I)	WGBDYIbI	3.0	5	S
M84-2051	WGTDYYI	3.0	3	S
M86-356	PGBDYYI	3.5	3	S
M87-330	WGBDYYI	2.5	5	S
M87-1569	PTTDYBlI	2.5	3	S
M88-25	PGBDYIbI	3.0	1	S
M88-79	PGBDYYI	3.0	5	S
M88-84	PGBIYYI	2.5	5	S
M88-107	WGBDYIbI	4.0	5	S
M88-210	PGBIYYI	3.5	3	S
M88-526	WGBDYBfI	2.8	5	R
M88-626	PGBDYYI	3.3	5	S
M88-712	WGBDYBfI	3.5	2	S
M88-782	PGBDYIbI	4.3	5	S
M88-788	PGB+TDYIbI	3.0	4	S
M88-829	WGBDYBfI	3.0	2	S
M88-857	PGBDYBfI	2.8	5	S
ND88-523	PG+TBDYYI	2.8	5	S
ND88-597	PGBDYYI	3.0	5	S
ND88-599	PGBDYYI	2.8	5	S
ND88-686	PGBDYGrI	3.8	1	S
ND88-709	WTBDYBrI	3.3	5	S
ND88-800	P+WGBDYBfI	3.0	3	S
ND88-1387	PGBDYYI	2.8	5	R
ND88-1657	WG+TBIYBl+BrI	2.8	4	S
ND88-1856	PGBIYYI	3.3	4	R
ND88-1860	PGBIYYI	3.5	2	H
ND88-1925	PGBDYYI	2.8	5	S
ND88-1942	PGBDYYI	2.5	1	S
ORC9002	PTBDYBrI	2.5	4	S
OT91-3	PGBDYBfI	3.5	1	S
SL88-581	PGTIYYI	2.5	5	S
SL88-649	PGBDYYI	3.3	2	S

UNIFORM TEST 0, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 5 Date	Lodging 7 Score	Plant Height 7 In.	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 4 %	Oil 4 %
Agassiz (00)	34.2	23	-7.2	1.1	31	2.0	13.8	40.7	18.2
Lambert (0)	40.2	3	09/30*	1.5	31	1.7	16.0	40.7	18.5
Parker (I)	38.7	6	6.4	2.5	39	2.5	16.3	39.4	18.3
M84-2051	31.4	32	4.4	2.0	35	2.3	16.5	39.3	17.8
M86-356	33.1	29	0.4	1.3	31	1.6	14.1	45.5	15.3
M87-330	36.0	15	-4.8	1.5	34	2.0	15.9	40.8	18.2
M87-1569	33.0	30	2.4	1.8	35	1.9	13.7	40.4	14.6
M88-25	35.5	18	1.4	1.4	33	1.9	14.3	40.5	18.3
M88-79	36.0	15	4.6	1.7	33	2.0	16.4	39.7	18.9
M88-84	40.7	2	0.6	1.3	30	2.0	16.2	40.3	18.3
M88-107	38.2	11	5.0	1.7	34	2.3	16.1	40.5	18.9
M88-210	40.0	4	1.0	1.6	34	2.1	17.7	39.6	19.7
M88-526	33.8	25	4.4	1.6	32	2.4	16.7	40.1	18.8
M88-626	38.3	10	-0.6	1.5	32	2.1	15.7	38.6	19.2
M88-712	35.2	21	5.6	1.7	33	2.2	15.3	40.0	18.7
M88-782	34.5	22	3.0	1.6	33	2.3	15.3	38.7	18.1
M88-788	35.4	19	6.2	1.7	33	2.1	15.4	38.6	17.9
M88-829	38.4	8	5.8	2.0	33	2.2	16.0	39.9	18.3
M88-857	37.9	12	2.4	1.7	32	2.0	15.3	39.8	18.9
ND88-523	33.8	25	-1.0	1.3	31	2.0	15.8	41.2	17.9
ND88-597	38.4	8	-0.8	1.3	33	2.0	17.0	40.4	17.8
ND88-599	35.3	20	-0.2	1.3	33	1.8	17.1	41.0	18.3
ND88-686	38.7	6	4.2	1.8	35	1.8	17.2	39.5	18.7
ND88-709	30.8	33	-7.2	2.2	34	1.9	17.9	39.9	18.3
ND88-800	36.6	13	-0.8	1.8	31	2.1	18.2	40.2	18.3
ND88-1387	36.3	14	-0.8	1.9	34	2.2	18.1	42.2	17.1
ND88-1657	33.3	28	-2.4	1.8	33	2.2	17.7	42.1	17.7
ND88-1856	30.8	33	5.2	1.4	32	2.4	18.0	41.2	17.5
ND88-1860	30.2	35	5.0	1.6	34	2.4	18.5	40.4	17.5
ND88-1925	33.8	25	-2.2	1.5	34	2.1	17.2	40.0	17.8
ND88-1942	34.0	24	2.2	1.6	33	2.1	16.1	40.8	17.7
ORC9002	39.7	5	4.0	1.5	32	2.0	16.8	40.2	18.3
OT91-3	40.8	1	-2.6	1.5	31	1.7	15.6	40.3	18.4
SL88-581	31.6	31	1.0	1.6	30	1.6	16.2	42.4	17.8
SL88-649	35.8	17	-1.0	1.4	30	1.8	17.3	39.2	17.3

* 137.4 Days After Planting

UNIFORM TEST 0, 1992

1991-1992 2-YEAR MEAN

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 11 Date	Lodging 13 Score	Plant Height 14 In.	Seed Quality 14 Score	Seed Size 14 g/100	Composition Protein 9 %	 Oil 9 %
Lambert (0)	42.8	1	9/19.1*	1.4	31	1.8	16.2	40.8	19.5
Parker (I)	42.2	2	8.9	2.5	38	2.1	17.1	40.0	19.1
M86-356	36.3	4	1.2	1.2	31	1.7	14.5	44.9	16.7
M87-1569	34.6	5	3.1	1.6	34	1.8	14.3	40.0	16.4
ORC 9002	42.1	3	3.3	1.3	30	1.9	17.0	40.1	19.1

* 124.1 Days After Planting

1990-1992 3-YEAR MEAN

No. of Tests Strain	20	20	18	20	21	21	21	14	14
Lambert (0)	42.5	1	9/20.4*	1.5	31	1.9	16.3	40.6	20.0
M86-356	36.7	2	1.8	1.4	31	1.9	14.6	44.2	17.4

* 123.7 Days After Planting

UNIFORM TEST 0, 1992

YIELD (bu/a)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner* WI
Agassiz (00)	34.2	48.3	44.7	27.2	36.4	30.0	18.3	15.2
Lambert (0)	40.2	53.6	49.1	34.2	42.1	37.1	25.2	16.8
Parker (I)	38.7	53.1	53.9	34.4	34.3	35.8	20.4	14.6
M84-2051	31.4	44.3	42.5	30.5	28.8	28.6	13.8	11.9
M86-356	33.1	42.9	41.1	28.3	32.5	29.9	23.8	13.3
M87-330	36.0	56.2	41.6	27.1	39.2	31.7	20.3	12.7
M87-1569	33.0	45.0	39.4	27.2	30.0	31.6	24.9	9.5
M88-25	35.5	44.4	49.4	29.1	35.2	29.3	25.7	16.0
M88-79	36.0	46.1	50.2	32.9	33.1	29.7	24.0	12.1
M88-84	40.7	56.9	49.9	33.0	37.1	39.0	28.2	12.5
M88-107	38.2	48.9	51.2	34.2	37.5	33.2	24.4	12.5
M88-210	40.0	51.5	53.3	32.6	41.6	37.5	23.6	15.7
M88-526	33.8	51.0	44.1	31.0	33.8	30.1	12.9	15.7
M88-626	38.3	56.9	47.2	34.2	36.9	27.9	26.7	14.2
M88-712	35.2	56.1	47.7	34.9	29.3	23.8	19.6	11.0
M88-782	34.5	47.6	46.1	31.9	31.7	28.4	21.2	11.6
M88-788	35.4	47.4	42.3	36.7	29.6	35.7	20.8	14.0
M88-829	38.4	57.4	47.2	32.6	36.4	31.3	25.5	14.2
M88-857	37.9	56.5	47.3	36.9	34.1	27.3	25.1	12.8
ND88-523	33.8	44.9	45.6	28.5	37.1	29.3	17.2	14.9
ND88-597	38.4	52.6	48.2	35.7	36.5	36.4	21.0	14.0
ND88-599	35.3	58.4	43.3	33.1	33.4	24.6	18.7	13.6
ND88-686	38.7	51.9	42.3	29.8	38.6	40.5	28.9	15.5
ND88-709	30.8	43.4	35.6	24.0	30.1	32.5	19.4	13.6
ND88-800	36.6	50.1	41.1	24.9	39.4	37.6	26.2	17.8
ND88-1387	36.3	59.4	45.3	25.5	37.3	28.1	22.0	14.2
ND88-1657	33.3	45.7	43.7	28.3	33.9	29.1	19.2	11.9
ND88-1856	30.8	47.8	41.4	26.9	30.7	18.1	20.2	8.5
ND88-1860	30.2	47.8	41.0	27.8	28.7	20.0	15.7	8.8
ND88-1925	33.8	48.4	44.8	26.6	32.3	29.0	21.9	15.7
ND88-1942	34.0	40.1	45.3	31.9	32.2	30.0	24.7	12.9
ORC9002	39.7	50.7	57.2	32.8	42.3	32.0	23.0	16.8
OT91-3	40.8	53.3	53.9	28.5	37.0	39.5	32.8	21.9
SL88-581	31.6	48.1	40.3	24.8	33.0	28.3	14.8	11.5
SL88-649	35.8	44.6	45.9	30.7	35.6	31.4	26.3	11.3
C.V. (%)		12.2	10.7	9.2	7.8	---	13.6	18.1
L.S.D. (5%)		10.0	7.5	4.5	3.8	---	4.9	4.0
Row Sp. (In.)		10	10	30	16	15	30	36
Rows/Plot		10	10	4	4	4	4	4
Reps		3	3	3	4	4	3	3

* Data Not Included in the Mean

UNIFORM TEST 0, 1992

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	23	20	22	28	13	18	30	10
Lambert (0)	3	9	9	6	2	6	9	3
Parker (I)	6	11	2	5	16	8	23	13
M84-2051	32	32	25	20	32	26	34	28
M86-356	29	34	30	25	23	20	15	21
M87-330	15	7	28	30	5	13	24	24
M87-1569	30	28	34	28	29	14	11	34
M88-25	18	31	8	22	15	22	7	5
M88-79	15	26	6	11	21	21	14	27
M88-84	2	4	7	10	9	3	3	25
M88-107	11	18	5	6	7	10	13	25
M88-210	4	14	4	13	3	5	16	6
M88-526	25	15	22	18	19	17	35	6
M88-626	10	4	13	6	11	30	4	14
M88-712	21	8	11	4	31	33	26	33
M88-782	22	24	15	15	26	27	20	30
M88-788	19	25	26	2	30	9	22	17
M88-829	8	3	13	13	13	16	8	14
M88-857	12	6	12	1	17	31	10	23
ND88-523	25	29	19	23	9	22	31	12
ND88-597	8	12	10	3	12	7	21	17
ND88-599	20	2	24	9	20	32	29	19
ND88-686	6	13	26	21	6	1	2	9
ND88-709	33	33	35	36	28	11	27	19
ND88-800	13	17	30	34	4	4	6	2
ND88-1387	14	1	18	33	8	29	18	14
ND88-1657	28	27	23	25	18	24	28	28
ND88-1856	33	22	29	31	27	35	25	36
ND88-1860	35	22	32	27	33	34	32	35
ND88-1925	25	19	20	32	24	25	19	6
ND88-1942	24	35	18	15	25	18	12	22
ORC9002	5	16	1	12	1	12	17	3
OT91-3	1	10	2	23	10	2	1	1
SL88-581	31	21	33	35	22	28	33	31
SL88-649	17	30	16	19	14	15	5	32

UNIFORM TEST 0, 1992

MATURITY (date)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	-7.2	-2	-8	-13	-7	-6		
Lambert (0)	09/30	09/27	09/23	09/27	10/06	10/09		
Parker (I)	6.4	3	10	3	10	6		
M84-2051	4.4	3	7	2	6	4		
M86-356	0.4	1	3	-2	1	-1		
M87-330	-4.8	-1	-1	-12	-3	-7		
M87-1569	2.4	2	5	2	6	-3		
M88-25	1.4	-1	4	-1	3	2		
M88-79	4.6	2	9	3	5	4		
M88-84	0.6	0	3	-3	0	3		
M88-107	5.0	1	9	2	6	7		
M88-210	1.0	0	5	2	0	-2		
M88-526	4.4	3	7	3	3	6		
M88-626	-0.6	-1	4	-1	-1	-4		
M88-712	5.6	3	7	3	10	5		
M88-782	3.0	0	7	2	4	2		
M88-788	6.2	4	10	2	9	6		
M88-829	5.8	4	9	3	5	8		
M88-857	2.4	2	6	2	1	1		
ND88-523	-1.0	1	0	-5	-2	1		
ND88-597	-0.8	-1	1	-1	-2	-1		
ND88-599	-0.2	0	1	0	-2	0		
ND88-686	4.2	2	8	3	9	-1		
ND88-709	-7.2	-2	-10	-12	-9	-3		
ND88-800	-0.8	0	2	-3	-1	-2		
ND88-1387	-0.8	1	0	-4	0	-1		
ND88-1657	-2.4	1	-3	-7	0	-3		
ND88-1856	5.2	3	10	0	6	7		
ND88-1860	5.0	1	10	1	6	7		
ND88-1925	-2.2	0	-1	-8	-2	0		
ND88-1942	2.2	2	3	-2	0	8		
ORC9002	4.0	2	8	2	2	6		
OT91-3	-2.6	-1	0	-3	-3	-6		
SL88-581	1.0	1	5	-4	0	3		
SL88-649	-1.0	-1	2	-4	0	-2		
Date Planted	05/16	05/06	05/14	05/14	05/25	05/21		
Days to Mature	137.4	144	132	136	134	141		

UNIFORM TEST 0, 1992

LODGING (score)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	1.1	1.0	1.7	1.0	1.0	1.3	1.0	1.0
Lambert (0)	1.5	1.3	2.0	1.3	1.2	1.8	1.0	2.0
Parker (I)	2.5	2.0	4.0	1.0	3.5	3.5	1.0	2.3
M84-2051	2.0	2.0	3.0	1.0	2.3	2.6	2.0	1.3
M86-356	1.3	1.0	2.0	1.0	1.0	1.8	1.0	1.0
M87-330	1.5	1.0	2.3	1.0	1.3	2.1	1.0	1.7
M87-1569	1.8	1.3	3.0	1.0	3.0	2.4	1.0	1.0
M88-25	1.4	1.0	2.0	1.0	1.0	2.6	1.0	1.3
M88-79	1.7	1.7	3.0	1.0	1.8	2.6	1.0	1.0
M88-84	1.3	1.0	2.0	1.0	1.0	2.0	1.0	1.0
M88-107	1.7	1.0	3.0	1.0	1.5	2.1	1.0	2.0
M88-210	1.6	1.0	2.7	1.0	1.8	2.1	1.0	1.7
M88-526	1.6	1.0	2.0	1.0	2.0	3.0	1.0	1.3
M88-626	1.5	1.0	2.7	1.0	1.0	2.0	1.0	1.3
M88-712	1.7	1.7	2.3	1.0	2.3	2.5	1.0	2.3
M88-782	1.6	1.0	2.0	1.0	1.5	2.0	1.0	1.0
M88-788	1.7	1.7	3.3	1.0	2.5	2.8	1.0	1.3
M88-829	2.0	2.0	3.0	1.0	2.3	3.3	1.0	2.3
M88-857	1.7	1.0	2.3	1.0	1.0	1.9	1.0	1.0
ND88-523	1.3	1.0	2.0	1.0	1.0	1.5	1.0	1.0
ND88-597	1.3	1.0	2.0	1.0	1.0	1.8	1.0	1.3
ND88-599	1.3	1.0	1.3	1.0	1.2	1.6	1.0	1.3
ND88-686	1.8	2.0	3.3	1.0	2.8	3.4	2.0	1.7
ND88-709	2.2	1.7	4.0	1.0	1.7	1.9	1.0	3.3
ND88-800	1.8	1.0	2.7	1.0	1.0	2.0	1.0	1.3
ND88-1387	1.9	2.0	3.0	2.0	2.2	3.0	2.0	2.3
ND88-1657	1.8	1.0	1.3	1.0	1.2	1.9	1.0	1.0
ND88-1856	1.4	1.0	2.7	1.0	1.7	3.0	1.0	1.3
ND88-1860	1.6	1.0	3.0	1.0	1.7	2.4	1.0	1.0
ND88-1925	1.5	1.0	2.3	1.0	1.0	1.9	1.0	2.0
ND88-1942	1.6	1.7	3.0	1.0	1.8	2.4	1.0	1.7
ORC9002	1.5	1.0	1.0	1.0	1.0	1.8	1.0	1.7
OT91-3	1.5	1.3	3.0	1.0	1.5	2.4	1.0	2.7
SL88-581	1.6	1.3	2.3	1.0	1.2	1.9	1.0	1.3
SL88-649	1.4	1.0	2.3	1.0	1.5	1.5	1.0	1.0

UNIFORM TEST O, 1992

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	31	36	33	24	32	30	28	35
Lambert (0)	31	35	34	26	33	32	26	33
Parker (I)	39	44	46	32	42	41	37	33
M84-2051	35	41	41	32	37	31	32	33
M86-356	31	37	37	24	32	31	28	31
M87-330	34	40	39	25	38	35	33	30
M87-1569	35	39	40	28	38	33	34	30
M88-25	33	40	37	25	36	33	30	29
M88-79	33	40	42	29	35	35	34	19
M88-84	30	35	33	24	32	30	28	29
M88-107	34	36	40	31	38	34	32	29
M88-210	34	38	37	29	39	34	31	29
M88-526	32	36	36	26	34	32	29	29
M88-626	32	37	39	30	33	32	30	28
M88-712	33	37	39	28	39	31	31	28
M88-782	33	38	37	28	35	32	32	28
M88-788	33	37	37	28	35	31	31	28
M88-829	33	39	40	28	36	34	33	28
M88-857	32	35	37	27	32	30	28	27
ND88-523	31	37	34	25	37	33	30	27
ND88-597	33	38	37	32	37	35	32	27
ND88-599	33	36	37	30	35	32	29	27
ND88-686	35	46	46	32	41	39	38	27
ND88-709	34	33	33	24	30	30	25	27
ND88-800	31	39	39	27	36	34	29	27
ND88-1387	34	42	40	32	41	35	32	27
ND88-1657	33	33	34	28	36	30	31	27
ND88-1856	32	36	35	27	36	35	32	27
ND88-1860	34	38	39	32	39	37	33	27
ND88-1925	34	39	36	25	37	33	32	27
ND88-1942	33	41	39	29	37	35	32	26
ORC9002	32	35	34	26	32	29	29	26
OT91-3	31	36	33	26	34	33	28	26
SL88-581	30	35	33	22	33	30	29	26
SL88-649	30	34	34	25	36	30	27	25

UNIFORM TEST 0, 1992

SEED QUALITY (score)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	2.0	1.3	2.0	1.0	2.3	3.5	2.0	2.0
Lambert (0)	1.7	2.0	2.0	1.0	1.2	2.0	2.0	2.0
Parker (I)	2.5	1.4	2.3	3.0	2.0	3.0	3.0	3.0
M84-2051	2.3	2.2	2.7	2.0	2.0	2.5	3.0	2.0
M86-356	1.6	1.5	2.0	1.0	1.0	1.5	3.0	1.0
M87-330	2.0	2.4	2.0	1.0	1.8	3.0	2.0	2.0
M87-1569	1.9	1.7	1.7	2.0	1.3	1.5	3.0	2.0
M88-25	1.9	1.5	1.7	2.0	2.0	2.0	2.0	2.0
M88-79	2.0	1.6	1.3	2.0	1.8	2.0	3.0	2.0
M88-84	2.0	1.7	1.7	2.0	2.0	1.5	3.0	2.0
M88-107	2.3	1.7	2.7	1.0	3.0	2.5	3.0	2.0
M88-210	2.1	1.3	2.0	2.0	1.3	3.0	3.0	2.0
M88-526	2.4	1.7	2.3	2.0	2.0	2.5	4.0	2.0
M88-626	2.1	1.7	2.0	2.0	1.7	1.5	2.0	2.0
M88-712	2.2	2.0	2.3	3.0	2.7	3.0	3.0	2.0
M88-782	2.3	1.7	2.0	1.0	3.0	2.0	3.0	2.0
M88-788	2.1	1.7	2.0	2.0	2.0	2.5	3.0	2.0
M88-829	2.2	1.3	2.0	2.0	2.5	2.5	3.0	2.0
M88-857	2.0	2.0	1.7	1.0	2.5	2.0	2.0	2.0
ND88-523	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0
ND88-597	2.0	2.0	1.3	2.0	2.0	2.0	2.0	2.0
ND88-599	1.8	1.7	1.3	1.0	2.0	2.0	2.0	2.0
ND88-686	1.8	1.7	2.0	2.0	1.7	1.5	2.0	2.0
ND88-709	1.9	2.3	2.0	2.0	1.5	2.5	2.0	2.0
ND88-800	2.1	2.3	2.7	2.0	1.7	2.0	2.0	2.0
ND88-1387	2.2	1.7	2.0	2.0	2.5	3.5	2.0	2.0
ND88-1657	2.2	2.3	2.0	2.0	2.3	2.5	2.0	2.0
ND88-1856	2.4	2.7	2.7	2.0	2.5	3.0	3.0	2.0
ND88-1860	2.4	2.0	2.0	2.0	2.2	2.0	3.0	2.0
ND88-1925	2.1	1.7	1.7	2.0	1.8	4.0	1.0	2.0
ND88-1942	2.1	1.7	2.0	2.0	2.0	3.5	2.0	2.0
ORC9002	2.0	1.7	1.3	2.0	1.0	2.0	3.0	2.0
OT91-3	1.7	1.3	1.3	1.0	1.8	1.5	2.0	2.0
SL88-581	1.6	1.7	1.7	2.0	1.0	1.5	2.0	2.0
SL88-649	1.8	1.3	1.7	2.0	2.3	2.5	2.0	1.0

UNIFORM TEST 0, 1992

SEED SIZE (g/100)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Water-town SD	Spooner WI
Agassiz (00)	13.8	13.9	13.9	12.8	12.5	14.6	17.0	12.1
Lambert (0)	16.0	15.1	16.3	14.6	15.0	18.4	18.0	14.7
Parker (I)	16.3	16.4	19.2	16.0	14.2	19.2	16.0	12.8
M84-2051	16.5	17.8	18.2	16.5	15.0	17.3	17.0	14.0
M86-356	14.1	13.7	16.4	13.7	13.4	15.5	15.0	10.8
M87-330	15.9	15.6	18.1	13.8	14.5	17.6	18.0	13.7
M87-1569	13.7	14.7	15.4	12.6	13.6	13.4	15.0	11.1
M88-25	14.3	14.4	15.9	14.4	13.3	15.4	15.0	11.8
M88-79	16.4	16.7	20.3	14.9	13.9	17.8	18.0	13.1
M88-84	16.2	16.6	17.5	14.7	15.0	18.9	18.0	12.9
M88-107	16.1	15.9	19.0	16.1	14.4	16.2	18.0	13.4
M88-210	17.7	18.2	18.5	15.5	16.9	18.9	21.0	14.9
M88-526	16.7	16.1	18.9	15.6	15.4	19.8	19.0	12.4
M88-626	15.7	15.6	16.3	14.5	13.8	15.5	16.0	11.5
M88-712	15.3	16.7	17.9	16.1	14.9	16.5	17.0	12.1
M88-782	15.3	14.9	16.6	14.3	13.2	14.1	18.0	11.6
M88-788	15.4	17.1	17.7	16.6	15.1	16.3	17.0	13.5
M88-829	16.0	16.3	17.1	15.2	14.2	17.7	17.0	13.5
M88-857	15.3	15.0	17.1	14.8	13.1	15.5	16.0	11.8
ND88-523	15.8	16.7	18.5	14.2	16.0	18.8	19.0	14.0
ND88-597	17.0	17.5	18.7	15.8	16.7	19.2	20.0	13.5
ND88-599	17.1	17.7	18.0	14.8	15.4	19.9	19.0	12.8
ND88-686	17.2	18.6	20.5	16.0	17.1	20.1	18.0	13.4
ND88-709	17.9	19.0	19.0	16.2	16.6	19.1	20.0	16.8
ND88-800	18.2	20.3	20.7	16.3	16.5	19.8	20.0	14.8
ND88-1387	18.1	18.7	20.3	16.9	17.1	18.9	19.0	14.5
ND88-1657	17.7	17.8	18.7	17.0	17.7	18.7	18.0	14.9
ND88-1856	18.0	18.2	20.3	17.0	17.6	20.7	20.0	15.9
ND88-1860	18.5	18.3	21.9	16.8	17.3	20.9	18.0	15.6
ND88-1925	17.2	15.3	17.5	13.9	15.2	19.1	18.0	13.2
ND88-1942	16.1	17.6	18.0	13.7	15.6	18.5	17.0	12.4
ORC9002	16.8	18.0	20.4	15.7	18.0	19.2	18.0	13.7
OT91-3	15.6	13.5	14.8	13.7	13.1	13.5	15.0	11.9
SL88-581	16.2	19.7	20.7	17.3	17.7	20.8	20.0	14.9
SL88-649	17.3	16.0	18.2	13.6	14.5	19.0	18.0	12.0

UNIFORM TEST 0, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Spooner WI
Agassiz (00)	40.7	40.8	41.9	39.3	40.8
Lambert (0)	40.7	39.7	42.1	37.8	43.2
Parker (I)	39.4	38.0	40.4	38.0	41.2
M84-2051	39.3	39.1	39.4	39.0	39.5
M86-356	45.5	43.7	47.5	43.8	47.0
M87-330	40.8	39.9	41.7	39.4	42.1
M87-1569	40.4	40.5	42.0	39.6	39.5
M88-25	40.5	41.0	41.5	38.5	41.0
M88-79	39.7	39.4	41.1	38.3	39.9
M88-84	40.3	39.9	40.8	38.3	42.3
M88-107	40.5	39.3	41.7	39.6	41.2
M88-210	39.6	38.9	41.2	37.6	40.5
M88-526	40.1	40.6	41.9	38.9	39.0
M88-626	38.6	38.1	39.8	37.4	39.1
M88-712	40.0	40.1	41.4	36.6	42.0
M88-782	38.7	39.1	40.0	37.8	37.8
M88-788	38.6	38.6	39.4	37.4	39.0
M88-829	39.9	40.7	40.5	38.7	39.8
M88-857	39.8	39.6	40.4	37.7	41.6
ND88-523	41.2	41.1	42.2	39.8	41.5
ND88-597	40.4	39.5	42.7	40.0	39.3
ND88-599	41.0	41.1	42.0	39.7	41.2
ND88-686	39.5	38.8	39.0	39.2	40.8
ND88-709	39.9	38.5	41.9	39.2	40.1
ND88-800	40.2	40.1	41.5	38.7	40.5
ND88-1387	42.2	41.2	42.2	42.5	42.7
ND88-1657	42.1	41.4	42.3	42.5	42.0
ND88-1856	41.2	41.1	40.8	40.5	42.3
ND88-1860	40.4	40.1	40.9	40.7	39.8
ND88-1925	40.0	40.0	41.0	38.3	40.8
ND88-1942	40.8	41.5	41.7	40.0	40.1
ORC9002	40.2	40.6	39.4	37.7	43.0
OT91-3	40.3	39.0	45.3	36.7	40.2
SL88-581	42.4	43.2	40.3	42.6	43.5
SL88-649	39.2	38.6	40.8	37.4	40.1

UNIFORM TEST 0, 1992

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Spooner WI
Agassiz (00)	18.2	18.4	17.7	20.2	16.4
Lambert (0)	18.5	19.5	17.8	20.8	15.9
Parker (I)	18.3	18.9	18.6	19.2	16.4
M84-2051	17.8	18.3	17.9	18.7	16.4
M86-356	15.3	16.9	14.8	17.0	12.4
M87-330	18.2	18.3	17.5	19.5	17.6
M87-1569	14.6	15.7	14.8	15.1	12.6
M88-25	18.3	18.0	18.0	20.2	16.9
M88-79	18.9	19.3	18.9	20.0	17.4
M88-84	18.3	18.4	19.0	19.9	16.0
M88-107	18.9	19.5	18.1	21.0	16.9
M88-210	19.7	19.8	19.0	21.3	18.5
M88-526	18.8	18.8	17.7	20.4	18.1
M88-626	19.2	20.1	18.6	20.7	17.2
M88-712	18.7	18.9	19.0	20.8	15.9
M88-782	18.1	18.7	17.5	19.1	17.0
M88-788	17.9	17.9	18.2	19.4	16.0
M88-829	18.3	18.1	18.4	19.6	17.1
M88-857	18.9	19.6	19.2	20.1	16.7
ND88-523	17.9	18.1	17.3	18.9	17.2
ND88-597	17.8	18.9	16.7	19.1	16.6
ND88-599	18.3	19.5	18.5	18.9	16.3
ND88-686	18.7	19.6	17.4	19.7	18.1
ND88-709	18.3	18.5	17.9	19.7	17.0
ND88-800	18.3	19.1	16.7	20.1	17.1
ND88-1387	17.1	16.9	18.3	17.1	15.9
ND88-1657	17.7	18.5	17.1	18.1	17.0
ND88-1856	17.5	17.1	17.7	18.6	16.4
ND88-1860	17.5	18.2	17.3	18.1	16.3
ND88-1925	17.8	18.4	17.6	19.1	15.9
ND88-1942	17.7	17.5	18.0	19.0	16.3
ORC9002	18.3	18.0	19.2	20.1	15.8
OT91-3	18.4	19.6	16.4	21.2	16.4
SL88-581	17.8	18.1	17.6	19.1	16.5
SL88-649	17.3	17.7	17.0	19.1	15.2

UNIFORM TEST I, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Lambert (0)	M75-274 x M76-151	UT 0	F5	Rps1
Parker (I)	A79-136012 x Dawson	3	F5	Rps1
Sturdy (L)	M70-127 x Century	5	F5	
AC90-115043	(NK S23-03 x A86-152032) x Sturdy	PT I	F5	Fe Chlor.
E88550	GL 2643 x Asgrow A1937	2	F3	
M86-1322	M75-2 x L77-906	2	F5	SCN 3
M87-160	Sibley x Hack	PT I	F5	Rps1
M87-170	Sibley a Hack	PT I	F5	Rps1
M87-180	Sibley x Hack	UT 0	F5	Rps1
M87-642	Sibley x BSR 101	PT I	F4	Rps1
M87-1621 (SCN)	Ozzie x Fayette	1	F8	Rps1 SCN 3
M87-1703	Ozzie x C1640	PT I	F5	Rps1
ORC 9004	Elgin x A81-155014	PT I	F5	
ORC 9006	KG 60 x Asgrow A2943	PT I	F5	

* Number of years in test or name of 1991 test.

UNIFORM TEST I, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Emerg. Score Ames	Chlorosis Score Hanska	Germination Lafayette %
Lambert (0)	PGBSYBfI	2	3.0	76
Parker (I)	WGBDYIbI	5	3.0	86
Sturdy (L)	PGBDYIbI	5	2.8	90
AC90-115043	PGBDYBfI	5	2.5	86
E88550	P+WGBDYBfI	5	4.0	94
M86-1322	WGTDYBfI	2	2.8	90
M87-160	WGTIYYI	5	2.5	96
M87-170	WGTDYIbI	3	3.5	96
M87-180	WGTIYBfI	5	3.8	88
M87-642	PGBDYGrI	2	3.0	98
M87-1621 (SCN)	WTBDYBlI	5	2.5	82
M87-1703	PTBDYBrI	5	2.8	96
ORC9004	PTBIYBlI	2	3.0	72
ORC9006	PTBDYYI	1	3.5	94

DISEASE DATA

	BSR-Boone		PR		PS	PSB	SMV
	Plant	Stem	Ames	Lafayette	Lafayette		
	n	n	Race	Race	a	n	a
Strain	%	%	4	7	%	%	Score
Lambert (0)	100	65.1	S	S	47	0	2M
Parker (I)	100	70.2	S	S	32	0	1
Sturdy (L)	100	69.0	S	S	28	2	2E
AC90-115043	90	56.9	R	S	20	0	1
E88550	100	66.4	H	S	32	2	1
M86-1322	100	54.5	S	S	15	0	1
M87-160	90	75.5	S	S	18	2	1
M87-170	100	74.1	S	S	13	0	1
M87-180	100	77.0	S	S	51	2	1
M87-642	60	16.4	S	S	37	0	1
M87-1621 (SCN)	90	17.1	H	S	22	2	1
M87-1703	100	85.4	S	S	14	2	1
ORC9004	100	58.0	S	S	18	0	2E
ORC9006	100	64.0	R	S	19	0	3E

UNIFORM TEST I, 1992

REGIONAL SUMMARY

No. of Tests / Strain	Yield 14 bu/a	Rank 14 No.	Maturity 11 Date	Lodging 15 Score	Plant Height 15 In.	Seed Quality 13 Score	Seed Size 14 g/100	Composition Protein 5 %	Composition Oil 5 %
Lambert (0)	42.2	11	-5.8	1.6	29	1.8	16.8	41.1	19.4
Parker (I)	49.3	1	09/22*	2.8	36	1.9	17.5	39.1	19.2
Sturdy (L)	47.4	5	4.8	2.3	36	2.1	19.0	40.2	19.2
AC90-115043	48.6	4	1.8	1.7	33	2.0	18.9	40.3	19.1
E88550	44.2	8	4.4	2.1	35	1.7	18.2	41.0	18.2
M86-1322	41.9	12	3.5	2.2	33	1.9	13.9	37.9	19.9
M87-160	45.5	7	3.8	1.8	33	1.6	16.7	40.0	18.8
M87-170	44.0	9	1.8	1.7	34	1.6	18.2	40.2	19.1
M87-180	41.1	13	-1.4	1.5	30	1.9	16.3	40.3	19.0
M87-642	48.9	2	3.5	1.9	36	1.9	18.9	39.1	19.2
M87-1621 (SCN)	43.9	10	2.8	1.8	33	1.7	19.3	40.1	19.5
M87-1703	40.6	14	2.3	2.2	33	1.8	17.4	41.9	17.9
ORC9004	48.9	2	2.3	1.8	33	1.9	21.4	38.8	19.3
ORC9006	46.3	6	-1.8	1.2	30	1.8	20.0	41.7	19.2

* 131.8 Days After Planting

1991-1992 2-YEAR MEAN

No. of Tests / Strain	Yield 30 bu/a	Rank 30 No.	Maturity 17 Date	Lodging 30 Score	Plant Height 30 In.	Seed Quality 18 Score	Seed Size 30 g/100	Composition Protein 10 %	Composition Oil 10 %
Parker (I)	50.9	1	9/18.0*	2.7	38	1.8	18.2	39.6	20.1
Sturdy (L)	48.4	2	4.3	2.2	37	1.9	19.2	40.5	19.8
E88550	47.4	3	3.5	2.2	37	1.8	18.2	41.0	19.3
M86-1322	43.6	5	1.4	2.4	34	2.0	14.0	39.0	20.8
M87-1624	46.6	4	1.4	2.0	34	1.9	19.3	41.0	20.3

* 125.3 Days After Planting

1990-1992 3-YEAR MEAN

No. of Tests / Strain	44	44	38	44	44	40	44	15	15
Parker (I)	51.6	1	9/18.3*	2.6	37	2.0	18.2	39.8	20.5
Sturdy (L)	50.2	2	4.9	2.1	37	2.0	19.1	40.4	20.2
M86-1322	44.1	3	0.4	2.3	34	2.3	14.0	39.2	21.1

* 125.3 Days After Planting

UNIFORM TEST I, 1992

YIELD (bu/a)

Strain	Mean 14 Tests	Greene IA	Humboldt IA	Royal IA	Lafayette IN	E. Lansing MI	St.* Charles MI	Lamber-ton MN	Waseca MN
Lambert (0)	42.2	54.2	51.3	30.1	46.6	44.1	4.3	50.6	54.3
Parker (I)	49.3	64.6	63.9	47.4	51.5	49.9	15.2	54.9	62.5
Sturdy (L)	47.4	62.8	55.2	40.7	47.5	50.7	20.5	58.2	62.7
AC90-115043	48.6	60.2	59.8	44.7	57.3	52.1	20.6	52.8	60.0
E88550	44.2	56.2	50.9	43.6	48.8	42.6	41.2	55.5	61.6
M86-1322	41.9	55.4	50.0	33.4	49.5	48.2	34.3	55.9	58.5
M87-160	45.5	54.1	52.3	37.3	48.7	46.7	14.8	56.9	59.9
M87-170	44.0	49.5	48.3	37.2	47.2	48.6	21.4	55.3	58.2
M87-180	41.1	51.4	50.0	36.9	41.8	42.4	9.3	50.7	56.4
M87-642	48.9	61.4	49.1	48.2	57.3	55.1	22.0	65.0	61.1
M87-1621 (SCN)	43.9	56.3	54.6	44.1	47.4	46.2	23.6	53.0	50.6
M87-1703	40.6	50.4	45.0	38.7	39.7	38.0	18.3	52.9	51.2
ORC9004	48.9	53.9	53.1	42.9	51.8	54.3	33.8	59.1	62.1
ORC9006	46.3	54.4	54.3	48.2	51.2	52.2	24.2	51.0	57.6
C.V. (%)		5.3	5.4	8.4	8.3	5.0	32.4	10.4	7.3
L.S.D. (5%)		4.9	4.7	5.7	6.8	5.2	14.8	ns	7.1
Row Sp. (In.)		27	27	27	24	30	30	10	10
Rows/Plot		4	4	4	4	4	4	10	10
Reps		3	3	3	3	2	2	3	3

YIELD (bu/a)

Strain	David City NE	Harting-ton NE	Dutton Ont.	London Ont.	State College PA	Brook-ings SD	Water-* town SD	Arling-ton WI
Lambert (0)	58.0	48.2	38.2	40.0	18.4	20.8	25.3	36.3
Parker (I)	62.6	58.0	48.6	46.3	24.6	25.8	22.0	29.5
Sturdy (L)	56.2	47.8	46.1	52.2	27.3	27.9	13.2	27.6
AC90-115043	67.3	42.0	52.2	50.3	20.8	26.5	21.4	34.2
E88550	58.8	47.5	44.9	42.5	23.7	19.1	8.5	22.6
M86-1322	54.3	41.8	37.6	36.3	20.4	17.1	12.2	27.6
M87-160	61.2	48.3	46.2	46.5	22.8	26.6	23.6	29.6
M87-170	59.3	42.8	38.6	55.8	20.7	23.4	28.9	31.4
M87-180	56.8	39.0	37.2	41.2	17.4	23.1	26.0	31.1
M87-642	56.2	47.3	43.5	48.5	28.0	35.3	17.1	28.2
M87-1621 (SCN)	55.5	47.0	37.6	53.1	18.4	22.2	11.5	27.9
M87-1703	55.1	42.2	41.7	41.5	24.4	23.7	13.5	24.5
ORC9004	60.9	51.8	46.8	58.2	28.3	31.2	16.3	29.8
ORC9006	57.4	48.8	42.3	51.7	24.3	22.9	28.7	32.5
C.V. (%)	8.9	6.2	14.9	---	15.7	13.4	22.6	14.1
L.S.D. (5%)	10.7	8.4	10.1	---	6.0	5.5	7.3	6.9
Row Sp. (In.)	30	30	24	15	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4
Reps	3	3	3	4	3	3	3	3

* Data Not Included in the Mean

UNIFORM TEST I, 1992

YIELD RANK

Strain	Yield Rank	Greene IA	Humboldt IA	Royal IA	Lafayette IN	E. Lansing MI	St. Charles MI	Lamber-ton MN	Waseca MN
Lambert (0)	11	9	8	14	12	11	14	14	12
Parker (I)	1	1	1	3	4	6	11	8	2
Sturdy (L)	5	2	3	8	9	5	9	3	1
AC90-115043	4	4	2	4	1	4	8	11	6
E88550	8	6	9	6	7	12	1	6	4
M86-1322	12	7	10	13	6	8	2	5	8
M87-160	7	10	7	10	8	9	12	4	7
M87-170	9	14	13	11	11	7	7	7	9
M87-180	13	12	10	12	13	13	13	13	11
M87-642	2	3	12	1	1	1	6	1	5
M87-1621 (SCN)	10	5	4	5	10	10	5	9	14
M87-1703	14	13	14	9	14	14	10	10	13
ORC9004	2	11	6	7	3	2	3	2	3
ORC9006	6	8	5	1	5	3	4	12	10

MATURITY (date)

Strain	Mean 11 Tests						
Lambert (0)	-5.8	-5	-2	-5	-5	-14	-8
Parker (I)	09/22	09/14	09/03	09/19	09/27	09/26	09/27
Sturdy (L)	4.8	5	6	8	0	3	2
AC90-115043	1.8	2	5	2	-1	1	1
E88550	4.4	4	7	7	1	3	1
M86-1322	3.5	4	4	6	2	3	3
M87-160	3.8	4	5	4	1	3	1
M87-170	1.8	2	2	5	-1	1	1
M87-180	-1.4	-1	-1	-1	-2	-4	-2
M87-642	3.5	6	6	9	-1	2	1
M87-1621 (SCN)	2.8	3	5	7	1	1	0
M87-1703	2.3	3	3	5	-1	2	-2
ORC9004	2.3	2	7	5	1	-1	-1
ORC9006	-1.8	-1	6	3	-2	-10	-5
Date Planted	05/13	05/19	05/08	05/15	05/06	05/05	04/30
Days to Mature	131.8	118	118	127	144	144	150

UNIFORM TEST I, 1992

YIELD RANK

Strain	David City NE	David City NE	Dutton Ont.	London Ont.	State College PA	Brook-ings SD	Water-town SD	Arling-ton WI
Lambert (0)		7	11	13	12	12	4	1
Parker (I)		2	2	9	4	6	6	8
Sturdy (L)		10	5	4	3	3	11	11
AC90-115043		1	1	6	9	5	7	2
E88550		6	6	10	7	13	14	14
M86-1322		14	12	14	11	14	12	11
M87-160		3	4	8	8	4	5	7
M87-170		5	10	2	10	8	1	4
M87-180		9	14	12	14	9	3	5
M87-642		10	7	7	2	1	8	9
M87-1621 (SCN)		12	12	3	12	11	13	10
M87-1703		13	9	11	5	7	10	13
ORC9004		4	3	1	1	2	9	6
ORC9006		8	8	5	6	10	2	3

MATURITY (date)

Strain						
Lambert (0)		-5	-8	-7	-2	-7
Parker (I)		09/15	09/27	10/02	09/16	10/08
Sturdy (L)		5	3	6	8	4
AC90-115043		2	-1	0	5	2
E88550		5	2	8	7	3
M86-1322		2	3	6	8	-1
M87-160		6	2	7	4	3
M87-170		3	0	4	0	2
M87-180		-2	-2	2	-2	-1
M87-642		3	0	4	6	2
M87-1621 (SCN)		1	0	3	5	3
M87-1703		2	1	3	5	3
ORC9004		2	0	0	6	4
ORC9006		-2	-4	-5	5	-5
Date Planted		05/09	05/19	05/14	05/20	05/26
Days to Mature		129	131	141	119	135

UNIFORM TEST I, 1992

LODGING (score)

Strain	Mean 15 Tests	Greene IA	Humboldt IA	Royal IA	Lafayette IN	E. Lansing MI	St. Charles MI	Lamber-ton MN	Waseca MN
Lambert (0)	1.6	4.0	1.7	1.2	1.5	2.0	1.0	1.3	1.3
Parker (I)	2.8	4.6	3.0	2.4	3.8	3.5	2.0	3.7	3.7
Sturdy (L)	2.3	3.7	3.0	2.2	1.8	3.0	1.0	3.0	3.3
AC90-115043	1.7	3.9	2.3	2.1	1.3	2.0	1.0	1.0	1.7
E88550	2.1	4.1	2.0	1.6	1.3	3.0	2.0	2.7	2.7
M86-1322	2.2	4.4	2.1	1.7	1.5	4.0	2.0	3.3	3.3
M87-160	1.8	3.8	1.9	1.6	1.2	2.0	2.0	2.3	2.3
M87-170	1.7	3.5	1.6	1.1	1.0	2.5	1.5	2.0	2.0
M87-180	1.5	2.8	1.5	1.5	1.0	1.5	2.0	2.0	1.7
M87-642	1.9	4.3	2.2	1.2	1.5	2.5	1.0	2.7	2.3
M87-1621 (SCN)	1.8	3.6	2.1	1.6	1.2	2.0	2.0	2.0	1.7
M87-1703	2.2	4.5	3.3	1.7	1.7	3.5	2.0	3.0	1.7
ORC9004	1.8	3.9	1.5	1.4	1.2	3.0	2.0	1.7	2.0
ORC9006	1.2	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0

PLANT HEIGHT (inches)

Strain	Mean 15 Tests								
Lambert (0)	29	41	34	26	32	30	17	33	27
Parker (I)	36	42	43	37	37	38	22	47	37
Sturdy (L)	36	42	41	36	38	38	25	40	36
AC90-115043	33	40	39	33	36	36	21	37	35
E88550	35	44	38	38	38	34	31	39	36
M86-1322	33	43	39	33	35	34	30	36	35
M87-160	33	42	39	34	35	34	24	34	33
M87-170	34	45	43	33	37	33	26	38	36
M87-180	30	40	34	33	33	22	21	33	31
M87-642	36	43	44	37	37	36	28	40	37
M87-1621 (SCN)	33	40	39	33	37	33	25	37	34
M87-1703	33	40	35	33	38	38	26	36	34
ORC9004	33	41	39	32	37	34	28	38	36
ORC9006	30	40	36	31	33	30	25	29	30

UNIFORM TEST I, 1992

LODGING (score)

Strain	David City NE	David City NE	Dutton Ont.	London Ont.	State College PA	Brook-ings SD	Water-town SD	Arling-ton WI
Lambert (0)		1.0	1.0	3.4	1.3	1.0	1.0	2.3
Parker (I)		2.0	1.0	3.1	1.3	1.0	2.0	4.0
Sturdy (L)		2.0	1.0	3.1	2.0	1.3	1.7	3.3
AC90-115043		1.0	1.0	1.9	1.3	1.0	1.0	3.0
E88550		1.0	1.3	3.4	1.3	1.0	1.0	3.0
M86-1322		1.0	1.0	3.1	1.0	1.0	1.0	3.3
M87-160		1.0	1.0	2.6	1.7	1.0	1.0	2.0
M87-170		1.0	1.0	2.5	1.0	1.0	1.3	3.0
M87-180		1.0	1.0	1.5	1.0	1.0	1.0	2.7
M87-642		1.0	1.3	3.5	1.3	1.0	1.0	2.7
M87-1621 (SCN)		1.0	1.0	2.8	1.3	1.0	1.0	3.3
M87-1703		1.0	1.0	4.1	1.0	1.0	1.0	3.7
ORC9004		1.0	1.3	2.5	1.0	1.0	1.0	3.7
ORC9006		1.0	1.0	1.0	1.0	1.0	1.3	2.3

PLANT HEIGHT (inches)

Strain							
Lambert (0)	33	26	37	21	18	29	26
Parker (I)	38	33	46	25	25	38	32
Sturdy (L)	42	32	44	25	27	35	30
AC90-115043	37	30	38	22	24	34	27
E88550	37	30	41	25	24	32	30
M86-1322	32	26	40	24	23	31	31
M87-160	35	30	40	22	23	34	29
M87-170	35	28	42	21	23	34	28
M87-180	31	25	38	22	22	28	24
M87-642	40	31	43	26	30	35	28
M87-1621 (SCN)	33	26	40	23	23	32	28
M87-1703	35	28	42	23	23	35	28
ORC9004	35	28	36	23	25	31	27
ORC9006	30	28	33	21	20	34	25

UNIFORM TEST I, 1992

SEED QUALITY (score)

Strain	Mean 13 Tests	Greene IA	Humboldt IA	Royal IA	Lafayette IN	E. Lansing MI	St. Charles MI	Lamber-ton MN	Waseca MN
Lambert (0)	1.8	1.4	1.2	1.7	1.5			2.0	1.3
Parker (I)	1.9	1.4	1.3	1.3	1.5			1.3	2.3
Sturdy (L)	2.1	1.8	1.4	1.5	1.0			1.3	2.0
AC90-115043	2.0	2.0	1.4	1.5	1.0			1.7	2.0
E88550	1.7	1.2	1.2	1.4	1.0			1.3	1.3
M86-1322	1.9	1.5	1.1	1.4	1.0			1.7	1.7
M87-160	1.6	1.3	1.5	1.3	1.0			1.3	1.3
M87-170	1.6	1.8	1.1	1.3	1.0			1.3	1.7
M87-180	1.9	1.7	1.4	1.1	1.0			2.0	2.0
M87-642	1.9	2.0	1.3	1.3	1.0			2.0	1.7
M87-1621 (SCN)	1.7	1.2	1.1	1.1	1.0			1.3	1.3
M87-1703	1.8	1.4	1.1	1.2	1.0			1.7	1.7
ORC9004	1.9	1.2	1.4	1.3	1.0			1.3	2.0
ORC9006	1.8	1.8	1.5	1.5	1.0			2.0	2.0

SEED SIZE (g/100)

Strain	Mean 14 Tests								
Lambert (0)	16.8	18.0	16.0	17.3	16.7	16.1	15.2	16.0	16.5
Parker (I)	17.5	18.4	16.4	17.3	16.6	16.8	15.5	17.5	18.2
Sturdy (L)	19.0	20.8	18.2	18.6	17.3	19.1	17.1	19.9	19.6
AC90-115043	18.9	19.7	18.0	18.4	18.1	19.0	16.1	19.5	19.0
E88550	18.2	19.2	17.8	17.5	16.7	19.1	17.5	19.0	19.7
M86-1322	13.9	14.4	13.0	13.5	13.3	14.4	12.5	14.0	16.0
M87-160	16.7	18.4	16.2	17.2	15.1	16.4	14.5	17.4	18.7
M87-170	18.2	19.5	18.6	18.3	17.0	17.6	14.9	18.9	15.5
M87-180	16.3	16.8	15.6	16.4	15.7	15.7	13.6	16.5	17.8
M87-642	18.9	19.8	18.0	19.2	16.9	20.4	15.2	19.3	19.8
M87-1621 (SCN)	19.3	21.6	18.0	20.6	17.1	18.9	17.8	20.6	20.5
M87-1703	17.4	18.6	17.4	19.7	16.5	17.7	16.0	18.6	19.5
ORC9004	21.4	23.4	19.6	20.8	18.4	23.2	19.5	22.8	21.6
ORC9006	20.0	21.5	19.6	20.8	17.1	21.4	16.4	20.8	21.9

UNIFORM TEST I, 1992

SEED QUALITY (score)

Strain	David City NE	David City NE	Dutton Ont.	London Ont.	State College PA	Brook-ings SD	Water-town SD	Arling-ton WI
Lambert (0)		1.7	2.7	3.0	2.0	2.3	2.0	1.0
Parker (I)		2.0	2.0	2.5	2.0	2.3	2.7	2.0
Sturdy (L)		2.0	1.7	4.0	2.0	2.3	3.7	2.0
AC90-115043		2.0	1.3	4.0	2.0	2.3	2.3	2.0
E88550		1.7	1.7	2.0	2.0	2.3	3.3	2.0
M86-1322		1.7	2.0	2.0	2.0	2.7	3.7	2.0
M87-160		2.0	1.0	1.5	1.5	2.0	2.0	2.0
M87-170		1.3	1.3	2.0	2.0	1.7	2.0	2.0
M87-180		1.7	2.3	2.5	2.0	2.0	2.3	2.0
M87-642		1.7	1.7	2.5	2.0	2.3	3.0	2.0
M87-1621 (SCN)		1.7	1.7	1.0	2.0	2.7	3.7	2.0
M87-1703		2.0	1.7	1.5	2.0	2.0	4.0	2.0
ORC9004		2.0	2.0	1.5	2.0	2.7	4.0	2.0
ORC9006		1.7	1.0	2.0	2.0	1.7	2.0	2.0

SEED SIZE (g/100)

Strain						
Lambert (0)	19.0	16.3	16.6	15.0	17.0	17.0
Parker (I)	21.8	18.2	16.4	14.3	16.3	17.8
Sturdy (L)	21.4	20.1	21.1	15.7	17.0	17.6
AC90-115043	21.6	18.8	19.1	17.7	19.0	19.2
E88550	20.8	20.0	17.8	15.0	15.7	17.7
M86-1322	16.7	14.8	15.1	9.7	11.7	12.9
M87-160	18.9	17.7	16.1	13.7	14.3	16.0
M87-170	21.7	19.6	18.6	16.3	17.3	16.6
M87-180	18.5	16.8	15.5	14.0	16.0	15.9
M87-642	22.3	21.4	18.4	16.7	15.7	17.8
M87-1621 (SCN)	21.1	21.9	19.9	13.3	15.3	19.4
M87-1703	18.9	19.3	12.3	15.7	14.0	16.7
ORC9004	21.9	24.2	22.0	20.0	18.7	21.2
ORC9006	20.3	21.9	21.4	17.7	17.3	19.0

UNIFORM TEST I, 1992

PROTEIN (%)

Strain	Mean 5 Tests	Humboldt IA	E. Lansing MI	London Ont.	Brookings SD	Arlington WI
Lambert (0)	41.1	40.5	42.2	41.8	41.8	39.0
Parker (I)	39.1	39.1	41.4	38.6	38.6	37.9
Sturdy (L)	40.2	40.9	42.6	39.3	39.3	39.1
AC90-115043	40.3	40.3	42.4	39.7	39.7	39.5
E88550	41.0	41.0	42.9	40.5	40.5	40.1
M86-1322	37.9	39.1	39.8	36.6	36.6	37.2
M87-160	40.0	42.3	41.5	38.5	38.5	39.3
M87-170	40.2	42.5	42.8	38.9	38.9	38.0
M87-180	40.3	41.3	42.0	39.6	39.6	38.8
M87-642	39.1	40.1	41.0	38.0	38.0	38.2
M87-1621 (SCN)	40.1	41.0	42.1	39.0	39.0	39.3
M87-1703	41.9	43.2	44.7	40.1	40.1	41.6
ORC9004	38.8	39.1	40.1	38.7	38.7	37.4
ORC9006	41.7	41.9	42.3	41.9	41.9	40.3

OIL (%)

Strain	Mean 5 Tests					
Lambert (0)	19.4	20.3	19.3	18.7	18.7	20.1
Parker (I)	19.2	19.9	18.3	19.0	19.0	19.8
Sturdy (L)	19.2	19.5	18.7	19.2	19.2	19.2
AC90-115043	19.1	19.7	18.6	18.7	18.7	19.8
E88550	18.2	18.9	18.0	17.5	17.5	19.1
M86-1322	19.9	20.5	20.2	19.1	19.1	20.7
M87-160	18.8	18.7	18.0	18.7	18.7	19.7
M87-170	19.1	18.3	18.8	19.2	19.2	20.2
M87-180	19.0	19.2	18.9	18.6	18.6	19.7
M87-642	19.2	18.9	19.3	18.5	18.5	20.9
M87-1621 (SCN)	19.5	20.3	19.3	18.8	18.8	20.5
M87-1703	17.9	18.0	17.9	18.0	18.0	17.5
ORC9004	19.3	19.2	20.3	18.9	18.9	19.3
ORC9006	19.2	20.2	19.6	18.3	18.3	19.5

PRELIMINARY TEST I, 1992

Strain	Parentage	Generation Composited	Unique Traits
Archer (BSR)	Williams 82 and PRX54-59 x BSR 101	BC4 F3	Rps1-k, Rps6
Lambert (O)	M75-274 x M76-151	F5	Rps1
Parker (I)	A79-136012 x Dawson	F5	Rps1
Sturdy (L)	M70-127 x Century	F5	
A91-501002	AgriPro AP2190 x A86-301024	F5	BSR resis.
A91-501004	A86-301024 x Dekalb 226	F5	BSR resis.
A91-501009	A86-301024 x Dekalb 226	F5	BSR resis.
A91-501014	A86-301024 x Dekalb 226	F5	BSR resis.
A91-501016	AgriPro AP2190 x A86-301024	F5	BSR resis..
A91-501024	A86-301024 x Dekalb 226	F5	BSR resis.
A91-501029	Dairyland DSR 304 x Northrup King S23-03	F5	
M88-1	BSR 101 x M82-776	F5	Rps1
M88-47	A82-161034 x M82-776	F5	Rps1
M88-77	M83-15 x M82-776	F5	Rps1
M88-181	M83-10 x Century 84	F5	Rps1
M88-207	M81-99 x Hardin	F5	Rps1
M88-208	M81-99 x Hardin	F5	Rps1
M88-290	Sibley x Sturdy	F5	Rps1
M88-504	M83-499 x M83-18	F5	Rps1-k
M88-523	M83-499 x M83-18	F5	Rps1-k
M88-720	Simpson x LN80-10508	F5	Rps1
ORC 9101	OAC Musca x Elgin	F5	
ORC 9107	Asgrow A1937 x Pride B152	F5	

PRELIMINARY TEST I, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Germination Lafayette %	Chlorosis Score Hanska
Archer (BSR)	PGTDYIbI	96	3.0
Lambert (0)	PGBSYBfI	76	3.0
Parker (I)	WGBDYIbI	86	3.0
Sturdy (L)	PGBDYIbI	90	2.8
A91-501002	PGBIYIbI	86	3.3
A91-501004	PGBIYBfI	92	2.5
A91-501009	PGBIYBfI	84	3.0
A91-501014	PGBDYIbI	92	3.3
A91-501016	PGBIYIbI	76	3.8
A91-501024	PGBIYIbI	88	3.5
A91-501029	PTBSYBlI	92	2.8
M88-1	PGBDYBfI	84	2.8
M88-47	WGBDYYI	82	3.0
M88-77	WGBSYYI	90	3.3
M88-181	PTBIYGrI	74	3.8
M88-207	PGBSYYI	82	3.8
M88-208	PGBSYYI	94	3.8
M88-290	PGBDYYI	94	3.0
M88-504	PGBDYBfI	98	3.8
M88-523	WGBDYBfI	96	2.8
M88-720	PGBDYIbI	88	3.0
ORC9101	PGBIYGrI	78	2.8
ORC9107	PGBIDYYI	94	3.8

PRELIMINARY TEST I, 1992

DISEASE DATA

Strain	BSR-Boone Plant n %	BSR-Boone Stem n %	PR Ames Race 4	PR Lafayette Race 7	PS Lafayette a %	PSB Lafayette n %	SMV a Score
Archer (BSR)	70	12.7	R	R	27	0	1
Lambert (O)	100	53.1	S	S	47	0	2M
Parker (I)	100	79.9	S	S	32	0	1
Sturdy (L)	100	65.2	S	S	28	2	2E
A91-501002	80	25.4	H	S	21	2	3M
A91-501004	90	20.5	H	R	35	0	2M
A91-501009	100	31.5	R	S	34	0	2E
A91-501014	90	46.4	S	S	40	0	1
A91-501016	100	50.2	R	S	17	0	2E
A91-501024	100	38.4	H	S	37	0	2E
A91-501029	60	23.3	S	S	7	0	1
M88-1	90	24.7	S	S	45	0	2M
M88-47	100	71.5	S	S	43	0	2M
M88-77	100	36.2	H	S	14	0	1
M88-181	100	42.7	S	S	37	2	3M
M88-207	100	77.4	H	S	4	0	2E
M88-208	100	72.4	S	R	25	0	2E
M88-290	90	73.9	S	S	24	0	2M
M88-504	100	81.1	S	R	25	2	2E
M88-523	100	86.0	S	R	24	2	1
M88-720	100	87.2	S	S	44	0	1
ORC9101	100	79.5	S	S	41	2	2E
ORC9107	100	79.3	S	S	16	0	3E

PRELIMINARY TEST I, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 5 Date	Lodging 7 Score	Plant Height 7 In.	Seed Quality 6 Score	Seed Size 7 g/100	Composition Protein 5 %	 Oil 5 %
Archer (BSR)	45.8	2	2.6	1.9	36	1.7	16.9	39.4	19.6
Lambert (0)	40.1	18	-8.6	2.0	29	1.8	16.6	41.6	19.2
Parker (I)	45.8	2	09/25*	2.8	38	1.6	17.9	39.7	19.2
Sturdy (L)	44.1	6	4.0	2.3	37	2.0	19.0	40.0	19.1
A91-501002	46.4	1	1.8	1.5	34	2.1	19.3	41.0	18.6
A91-501004	41.8	13	0.8	1.7	35	1.7	19.4	40.8	18.3
A91-501009	40.3	17	2.4	2.3	35	2.0	19.1	41.1	18.1
A91-501014	42.3	11	0.0	2.0	34	2.0	18.6	40.3	18.3
A91-501016	43.1	9	3.0	2.7	36	1.5	18.8	39.8	18.9
A91-501024	42.8	10	-1.2	1.6	32	1.8	20.2	39.4	19.0
A91-501029	42.2	12	5.4	2.5	37	2.3	16.7	40.3	18.1
M88-1	43.9	8	2.8	2.6	36	1.8	17.4	41.2	18.3
M88-47	38.1	22	-1.2	2.3	34	1.8	16.0	40.9	19.1
M88-77	44.2	5	0.8	2.1	34	1.5	18.1	40.5	19.3
M88-181	40.0	19	3.0	2.1	34	1.7	20.1	42.9	18.3
M88-207	44.0	7	0.6	2.6	37	1.5	17.0	40.3	19.0
M88-208	45.3	4	-0.6	2.6	37	1.7	17.1	40.1	19.4
M88-290	41.1	15	1.6	2.1	37	1.7	19.3	40.8	18.5
M88-504	41.1	15	1.6	2.1	34	1.7	19.3	40.4	19.0
M88-523	38.6	20	2.6	2.3	33	1.8	19.9	40.7	19.4
M88-720	37.8	23	-0.2	2.3	35	1.8	18.2	40.9	19.1
ORC9101	41.2	14	-0.2	1.9	33	1.8	16.1	41.0	19.2
ORC9107	38.5	21	-2.4	2.5	37	2.1	21.6	40.7	19.2

* 135.4 Days After Planting

PRELIMINARY TEST I, 1992

YIELD (bu/a)

Strain	Mean 7 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	45.8	54.1	52.2	50.6	46.2	56.2	31.9	29.5
Lambert (0)	40.1	53.1	40.7	38.1	43.0	49.0	29.0	27.6
Parker (I)	45.8	61.2	40.2	49.8	53.8	52.4	33.2	30.3
Sturdy (L)	44.1	59.2	39.6	43.9	53.3	54.8	34.7	23.2
A91-501002	46.4	54.7	50.7	54.8	51.6	49.0	33.9	30.1
A91-501004	41.8	56.1	40.7	45.9	46.0	53.7	27.9	22.1
A91-501009	40.3	52.8	46.7	46.3	44.0	44.6	28.7	19.2
A91-501014	42.3	50.3	44.6	45.6	45.2	51.4	30.0	29.3
A91-501016	43.1	59.4	45.7	43.5	47.4	50.0	28.8	26.6
A91-501024	42.8	57.2	49.3	49.7	38.7	48.9	33.1	23.0
A91-501029	42.2	58.8	40.6	45.4	45.3	50.7	28.4	26.2
M88-1	43.9	59.0	47.6	47.3	49.7	46.7	27.4	29.3
M88-47	38.1	49.5	34.1	38.6	44.2	48.5	24.1	27.5
M88-77	44.2	54.6	45.3	49.6	55.2	49.1	25.2	30.6
M88-181	40.0	52.1	42.0	41.2	45.5	49.1	27.7	22.3
M88-207	44.0	55.8	38.1	45.3	51.9	53.5	36.3	27.0
M88-208	45.3	55.8	45.3	38.8	53.6	56.8	34.8	31.8
M88-290	41.1	53.4	40.3	41.1	49.7	51.0	28.5	23.4
M88-504	41.1	53.6	37.9	37.1	43.9	51.3	21.1	25.6
M88-523	38.6	50.2	38.2	31.4	46.0	49.2	23.1	26.7
M88-720	37.8	53.6	41.3	43.3	50.1	49.6	22.1	28.5
ORC9101	41.2	43.1	36.4	38.4	44.4	49.9	29.0	28.5
ORC9107	38.5	50.1	43.8	39.6	49.6	49.8	33.0	31.3
C.V. (%)		5.2	6.4	10.2	6.3	6.7	13.1	16.8
L.S.D. (5%)		5.6	5.5	9.2	6.2	ns	7.9	9.4
Row Sp. (In.)		27	27	30	10	10	30	30
Rows/Plot		4	4	4	4	4	4	4
Reps		2	2	2	2	2	2	2

PRELIMINARY TEST I, 1992

YIELD RANK

Strain	Yield Rank	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	2	12	1	2	12	2	8	6
Lambert (O)	18	16	13	21	22	18	10	11
Parker (I)	2	1	17	3	2	6	5	4
Sturdy (L)	6	3	18	12	4	3	3	19
A91-501002	1	10	2	1	6	18	4	5
A91-501004	13	7	13	8	13	4	16	22
A91-501009	17	17	5	7	20	23	13	23
A91-501014	11	19	9	9	17	7	9	7
A91-501016	9	2	6	13	11	11	12	15
A91-501024	10	6	3	4	23	20	6	20
A91-501029	12	5	15	10	16	10	15	16
M88-1	8	4	4	6	8	22	18	4
M88-47	22	22	23	19	19	21	20	12
M88-77	5	11	7	5	1	16	19	3
M88-181	19	18	11	15	15	16	17	21
M88-207	7	8	20	11	5	5	1	13
M88-208	4	8	7	18	3	1	2	1
M88-290	15	15	16	16	8	9	14	18
M88-504	15	13	21	22	21	8	23	17
M88-523	20	20	19	23	13	15	21	14
M88-720	23	13	12	14	7	14	22	9
ORC9101	14	23	22	20	18	12	10	9
ORC9107	21	21	10	17	10	13	7	2

PRELIMINARY TEST I, 1992

MATURITY (date)

Strain	Mean 5 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	2.6	5		6	0	1		1
Lambert (0)	-8.6	-6		-7	-13	-9		-8
Parker (I)	09/25	09/14		09/20	09/25	09/28		10/10
Sturdy (L)	4.0	8		6	4	1		1
A91-501002	1.8	0		5	3	0		1
A91-501004	0.8	2		4	-2	-2		2
A91-501009	2.4	3		4	2	0		3
A91-501014	0.0	0		2	0	0		-2
A91-501016	3.0	6		7	3	1		-2
A91-501024	-1.2	0		2	-2	-4		-2
A91-501029	5.4	8		7	7	2		3
M88-1	2.8	6		6	2	0		0
M88-47	-1.2	0		2	-2	-3		-3
M88-77	0.8	3		4	0	-1		-2
M88-181	3.0	5		4	3	1		2
M88-207	0.6	4		2	-1	0		-2
M88-208	-0.6	4		0	-1	0		-6
M88-290	1.6	2		4	0	1		1
M88-504	1.6	2		6	1	1		3
M88-523	2.6	4		2	-2	-3		-2
M88-720	-0.2	0		2	-1	0		-2
ORC9101	-0.2	-2		4	-4	-6		-4
ORC9107	-2.4	6		4	4	1		1
Date Planted	05/13	05/19		05/15	05/05	04/30		05/26
Days to Mature	135.4	118		128	143	151		137

PRELIMINARY TEST I, 1992

LODGING (score)

Strain	Mean 7 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	1.9	1.8	1.3	2.0	2.5	3.0	1.0	1.8
Lambert (0)	2.0	1.6	1.3	2.5	2.0	3.0	1.0	2.5
Parker (I)	2.8	3.0	1.3	3.5	3.5	3.5	1.0	4.0
Sturdy (L)	2.3	2.0	1.2	3.0	3.0	3.5	1.0	2.5
A91-501002	1.5	1.1	1.1	1.5	1.0	2.0	1.0	2.5
A91-501004	1.7	1.4	1.1	1.5	2.5	2.5	1.0	2.0
A91-501009	2.3	1.5	1.3	2.5	3.5	3.0	1.0	3.0
A91-501014	2.0	1.7	1.0	2.0	3.0	3.0	1.0	2.0
A91-501016	2.7	2.8	1.9	3.0	3.5	3.0	1.5	3.0
A91-501024	1.6	1.5	1.1	1.5	1.5	2.5	1.0	2.0
A91-501029	2.5	2.1	1.2	3.0	3.0	4.0	1.0	3.0
M88-1	2.6	2.6	1.5	3.0	4.0	3.5	1.0	2.5
M88-47	2.3	2.5	1.4	2.5	3.0	3.0	1.0	2.5
M88-77	2.1	2.0	1.3	2.5	3.0	2.0	1.0	3.0
M88-181	2.1	1.6	1.4	2.0	2.0	3.0	1.0	4.0
M88-207	2.6	2.8	1.1	3.0	3.0	3.0	1.0	4.0
M88-208	2.6	2.3	1.3	3.5	3.0	3.5	1.0	3.5
M88-290	2.1	1.7	1.2	2.5	2.5	3.0	1.0	2.5
M88-504	2.1	1.7	1.3	3.0	3.0	3.0	1.0	3.0
M88-523	2.3	2.1	1.2	2.5	3.5	2.5	1.0	3.0
M88-720	2.3	1.3	1.1	2.0	3.0	2.0	1.0	3.0
ORC9101	1.9	2.3	1.8	3.5	2.5	3.0	1.0	3.5
ORC9107	2.5	2.2	1.1	3.0	2.5	3.0	1.0	3.0

PRELIMINARY TEST I, 1992

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	36	41	37	37	41	40	29	30
Lambert (0)	29	34	24	30	37	34	21	26
Parker (I)	38	43	32	39	43	44	32	33
Sturdy (L)	37	42	36	39	42	40	31	32
A91-501002	34	40	34	36	35	36	28	26
A91-501004	35	42	33	33	41	38	28	28
A91-501009	35	40	36	35	39	38	30	25
A91-501014	34	39	34	32	41	39	25	27
A91-501016	36	42	36	37	46	38	30	23
A91-501024	32	37	32	32	36	33	24	32
A91-501029	37	41	38	39	42	41	28	30
M88-1	36	40	35	38	43	36	28	30
M88-47	34	40	32	36	38	41	26	28
M88-77	34	42	34	38	41	38	25	23
M88-181	34	38	34	36	39	38	27	28
M88-207	37	43	30	42	43	42	30	32
M88-208	37	44	36	38	42	41	29	31
M88-290	37	40	32	38	39	37	25	25
M88-504	34	40	32	33	37	38	25	27
M88-523	33	42	34	36	38	36	28	28
M88-720	35	38	32	34	38	38	23	26
ORC9101	33	42	34	41	43	38	28	32
ORC9107	37	42	38	38	43	44	26	31

PRELIMINARY TEST I, 1992

SEED QUALITY (score)

Strain	Mean 6 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	1.7	1.5	1.6		2.3	2.0	2.0	1.0
Lambert (0)	1.8	1.1	1.4		2.0	1.5	2.5	2.0
Parker (I)	1.6	1.2	1.3		2.0	1.0	2.0	2.0
Sturdy (L)	2.0	1.4	1.2		1.7	2.5	3.0	2.0
A91-501002	2.1	1.7	1.9		2.0	2.0	3.0	2.0
A91-501004	1.7	1.2	1.5		1.7	1.5	2.5	2.0
A91-501009	2.0	1.3	1.4		2.7	1.5	3.0	2.0
A91-501014	2.0	1.5	1.2		2.0	2.0	3.0	2.0
A91-501016	1.5	1.1	1.3		1.7	1.0	3.0	1.0
A91-501024	1.8	1.2	1.3		2.0	1.5	3.0	2.0
A91-501029	2.3	2.0	1.7		2.3	2.5	3.0	2.0
M88-1	1.8	1.2	1.3		1.7	2.0	2.5	2.0
M88-47	1.8	1.3	1.4		2.3	2.0	2.0	2.0
M88-77	1.5	1.6	1.3		1.3	1.0	2.5	1.0
M88-181	1.7	1.2	1.5		1.3	1.5	2.5	2.0
M88-207	1.5	1.3	1.1		1.3	1.0	2.5	2.0
M88-208	1.7	1.2	1.2		1.3	1.5	3.0	2.0
M88-290	1.7	1.7	1.2		2.0	1.0	2.5	2.0
M88-504	1.7	1.4	1.2		2.3	2.0	2.0	2.0
M88-523	1.8	1.1	1.3		2.3	2.0	2.0	2.0
M88-720	1.8	1.3	1.5		2.0	1.5	2.5	2.0
ORC9101	1.8	2.0	1.8		2.0	2.5	2.5	2.0
ORC9107	2.1	1.3	1.3		2.3	1.5	2.0	2.0

PRELIMINARY TEST I, 1992

SEED SIZE (g/100)

Strain	Mean 7 Tests	Humboldt IA	Royal IA	East Lansing MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	16.9	16.8	17.0	16.9	18.0	17.9	15.5	16.4
Lambert (0)	16.6	15.6	16.5	15.6	16.8	16.9	17.5	17.3
Parker (I)	17.9	17.6	18.0	17.2	20.0	18.7	18.0	15.9
Sturdy (L)	19.0	18.6	18.8	18.9	21.8	20.3	16.5	18.1
A91-501002	19.3	17.4	19.2	19.4	20.9	19.4	19.5	19.6
A91-501004	19.4	19.2	19.6	19.9	20.8	19.4	18.0	19.2
A91-501009	19.1	18.5	19.1	18.6	21.1	19.5	18.5	18.7
A91-501014	18.6	17.3	18.5	18.3	20.4	20.2	17.5	17.7
A91-501016	18.8	19.3	18.8	19.7	20.4	19.0	17.0	17.3
A91-501024	20.2	18.8	19.9	21.0	20.7	20.6	20.5	20.0
A91-501029	16.7	16.4	15.4	16.6	18.6	17.6	15.0	17.5
M88-1	17.4	17.6	17.8	17.4	18.6	18.4	15.5	16.8
M88-47	16.0	15.0	16.6	16.1	17.5	17.1	15.0	15.0
M88-77	18.1	17.7	18.6	18.8	19.8	18.9	15.0	17.8
M88-181	20.1	20.2	20.6	19.7	22.0	21.0	19.0	18.4
M88-207	17.0	17.3	16.2	16.2	18.3	18.7	16.5	15.8
M88-208	17.1	16.6	17.1	16.6	19.2	18.2	16.0	16.2
M88-290	19.3	19.2	19.3	18.5	22.8	20.3	16.5	18.6
M88-504	19.3	20.6	18.6	20.4	22.7	19.7	18.0	19.2
M88-523	19.9	19.6	18.6	17.4	18.5	17.0	19.0	17.6
M88-720	18.2	16.8	15.3	15.4	18.4	16.4	14.5	16.0
ORC9101	16.1	20.0	19.4	22.6	24.3	22.1	21.5	21.4
ORC9107	21.6	17.5	19.3	18.2	20.8	19.4	16.0	16.7

PRELIMINARY TEST I, 1992

PROTEIN (%)

Strain	Mean 5 Tests	Humboldt IL	E. Lansing MI	Lamberton MN	Brookings SD	Arlington WI
Archer (BSR)	39.4	39.7	40.5	39.5	39.2	38.0
Lambert (0)	41.6	40.3	43.2	42.6	42.2	39.5
Parker (I)	39.7	39.4	41.0	39.8	40.1	38.1
Sturdy (L)	40.0	40.7	42.1	39.8	39.8	37.8
A91-501002	41.0	41.4	42.0	42.0	40.8	39.0
A91-501004	40.8	41.3	42.2	41.1	40.1	39.3
A91-501009	41.1	41.3	41.4	41.8	40.7	40.1
A91-501014	40.3	41.6	41.2	40.6	39.8	38.3
A91-501016	39.8	40.7	41.0	40.1	39.5	37.5
A91-501024	39.4	39.7	40.4	40.1	39.3	37.3
A91-501029	40.3	41.7	41.6	39.3	39.8	38.9
M88-1	41.2	41.8	42.3	41.8	40.3	39.6
M88-47	40.9	41.0	42.8	41.3	41.1	38.2
M88-77	40.5	40.6	42.3	41.0	40.1	38.3
M88-181	42.9	43.3	43.8	43.3	41.5	42.6
M88-207	40.3	40.6	42.2	40.6	39.2	38.9
M88-208	40.1	40.7	41.3	40.7	40.1	37.7
M88-290	40.8	40.8	43.0	42.0	40.7	37.6
M88-504	40.4	40.3	42.3	40.3	39.0	37.7
M88-523	40.7	42.0	44.0	40.6	42.2	38.7
M88-720	40.9	41.3	42.4	41.0	39.3	37.7
ORC9101	41.0	41.7	42.0	41.6	42.2	40.8
ORC9107	40.7	39.7	42.5	39.4	39.3	38.0

PRELIMINARY TEST I, 1992

OIL (%)

Strain	Mean 5 Tests	Humboldt IA	E. Lansing MI	Lamberton MN	Brookings SD	Arlington WI
Archer (BSR)	19.6	20.6	19.6	18.9	18.4	20.7
Lambert (0)	19.2	20.5	18.3	18.2	19.0	20.0
Parker (I)	19.2	19.9	19.2	18.9	18.4	19.7
Sturdy (L)	19.1	19.2	19.2	18.4	18.4	20.1
A91-501002	18.6	19.2	18.5	17.9	18.3	19.3
A91-501004	18.3	19.0	18.8	18.0	16.9	19.0
A91-501009	18.1	19.0	18.1	17.3	17.3	18.7
A91-501014	18.3	18.5	18.5	18.1	17.3	19.1
A91-501016	18.9	19.1	18.8	18.6	17.9	20.3
A91-501024	19.0	18.6	19.7	17.8	18.7	20.1
A91-501029	18.1	18.3	18.1	18.4	17.1	18.7
M88-1	18.3	17.8	18.5	17.6	17.5	20.3
M88-47	19.1	22.5	18.4	17.9	17.5	19.2
M88-77	19.3	19.4	19.4	18.9	18.2	20.4
M88-181	18.3	19.0	18.7	17.4	18.4	18.1
M88-207	19.0	19.4	18.8	18.6	18.4	20.0
M88-208	19.4	20.0	19.5	18.8	18.8	20.1
M88-290	18.5	18.9	18.5	18.1	18.1	18.9
M88-504	19.0	20.4	19.1	19.2	18.9	20.2
M88-523	19.4	19.3	18.0	20.2	17.8	20.5
M88-720	19.1	18.9	18.9	18.2	18.7	20.4
ORC9101	19.2	18.4	19.5	18.5	18.3	22.5
ORC9107	19.2	19.3	18.2	19.4	17.9	19.5

UNIFORM TEST II, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	3	F5	
Jack (SCN)	Fayette x Hardin	3	F4	SCN 3,4
Kenwood (II)	Elgin x Asgrow A1937	5	F5	
Sturdy (I)	M70-127 x Century	6	F5	
A Kenwood BC	Kenwood4 x Elgin 87	-	BC4 F4	Rps1-k
AM90-111004	Chamberlain x Conrad	PT IIA	F5	BSR Resis.
AM90-111022	AgriPro AP2190 x Asgrow A3427	PT I	F5	
AM90-211003	Chamberlain x Conrad	PT IIA	F5	BSR Resis.
C1834	C1678 x Resnik	PT IIB	F5	Rps1-k
HS88-4905	Conrad x Hayes	1	F5	Rps1-k
HS88-4906	Conrad x Hayes	1	F5	Rps1-k
HS88-4909	Conrad x Hayes	1	F5	Rps1-k
HS89-2839	Conrad x Hayes	PT IIA	F5	Rps1-k
HS89-2840	Conrad x Hayes	PT IIA	F5	Rps1-k
M86-1973	L77-906 x M75-89	2	F4	SCN 3
LN88-1496	BSR 101 x A80-244036	PT IIB	F5	Rps1
LN88-1674	BSR 101 x A80-244036	PT IIB	F5	Rps1
LN88-1682	BSR 101 x A80-244036	PT IIB	F5	Rps1
LN88-9709	Sherman x Asgrow A2932	PT IIB	F5	
ORC 8905	Pride B152 x Jewel	1	F5	
ORC 9008	Elgin x Asgrow A3127	PT IIB	F5	
U8763041	Sherman x Harper	2	F5	
U89-2035	$SG_1/BC/85\text{-}E_1$+	1	F5	dtl
U90-2607	Fremont x S56A	PT IIA	F5	

* Number of years in test or name of 1991 test.

+ $SG1/NS/84\text{-}RM_3/MS$ x 32 Elite high yielding lines, see Crop Sci 25:717-718

UNIFORM TEST II, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Emerg. Score Ames	Chlorosis Score Hanska	Germination Lafayette %
IA2007 (L)	PTBDYBrI	1	4.5	86
Jack (SCN)	WGBDYYI	5	2.8	96
Kenwood (II)	PTBDYBlI	4	4.0	90
Sturdy (I)	PGBDYIbI	5	2.8	90
AKenwoodBC	PTBDYBlI	5	3.8	88
AM90-111004	PTBIYBlI	2	3.3	84
AM90-111022	PGBIYBfI	5	2.8	100
AM90-211003	PTBIYBlI	2	3.0	86
C1834	WTTDYBlI	1	3.5	94
HS88-4905	PGBDYBfI	4	3.5	94
HS88-4906	PGTDYBfI	3	3.3	98
HS88-4909	PGBDYBfI	4	4.3	90
HS89-2839	PGB+TDLYBfI	4	3.8	98
HS89-2840	PGBIYBfI	5	4.0	92
M86-1973	PGBDYBfI	4	3.3	88
LN88-1496	PGTDYIbI	4	3.5	88
LN88-1674	PTTDYBlI	3	3.5	90
LN88-1682	PTTDYBlI	3	3.3	96
LN88-9709	WGBIYBfI	3	4.0	100
ORC8905	PGBDYYI	3	3.3	100
ORC9008	PTTDYBlI	3	3.3	92
U8763041	WGBDYBfI	5	2.8	92
U89-2035	WGB+TDYBfD	2	2.5	90
U90-2607	WGB+TDYBfI	5	2.8	96

UNIFORM TEST II, 1992

DISEASE DATA

	BSR-Boone		PR				PS	PSB	SMV
	Plant	Stem	Phyto.	Urbana	Ames	Laf.	Lafayette		
	n	n	Tol.	Race	Race	Race	a	n	a
Strain	%	%	NW Branch	1	4	7	%	%	Score
IA2007 (L)	100	62.6	3.8	R	H	R	16	2	3E
Jack (SCN)	80	17.6	3.3	S	S	R	42	0	1
Kenwood (II)	100	59.2	7.1	S	S	S	27	2	2M
Sturdy (I)	100	62.7	4.8	R	S	S	28	2	2E
AKenwoodBC	100	77.7	4.1	R	R	R	16	0	1
AM90-111004	80	33.4	4.1	S	S	S	20	0	1
AM90-111022	100	76.8	4.3	S	S	S	16	0	2E
AM90-211003	70	15.6	3.6	R	S	S	21	0	3S
C1834	100	46.8	3.6	R	R	R	17	0	3E
HS88-4905	100	94.5	4.3	R	R	R	37	0	2E
HS88-4906	100	72.9	4.3	R	R	R	44	0	2M
HS88-4909	100	77.4	4.3	R	R	R	37	0	3M
HS89-2839	100	73.9	4.8	R	R	R	42	0	3M
HS89-2840	100	92.7	4.5	R	R	R	50	0	3E
M86-1973	100	93.2	5.8	R	S	R	45	0	4E
LN88-1496	90	27.7	4.1	R	S	R	17	0	4E
LN88-1674	90	17.2	4.0	R	S	S	11	0	1
LN88-1682	90	19.2	3.9	R	S	S	14	0	3E
LN88-9709	90	43.5	3.9	R	S	S	34	0	2E
ORC8905	90	68.5	4.0	S	S	S	10	0	3M
ORC9008	90	53.9	5.6	S	S	S	19	0	4E
U8763041	90	68.6	4.4	S	S	S	46	0	1
U89-2035	100	42.2	3.9	R	H	S	14	2	1
U90-2607	100	42.1	5.8	R	S	S	15	0	2S

UNIFORM TEST II, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 24 bu/a	Rank 24 No.	Maturity 21 Date	Lodging 25 Score	Plant Height 25 In.	Seed Quality 23 Score	Seed Size 24 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	53.2	3	6.1	2.0	35	1.8	18.2	39.4	20.6
Jack (SCN)	51.4	4	7.3	2.7	38	1.7	15.3	40.4	20.6
Kenwood (II)	51.1	5	09/21*	2.1	35	1.9	16.7	40.3	20.3
Sturdy (I)	48.4	19	-0.2	2.1	34	2.0	18.7	41.1	20.0
AKenwoodBC	50.9	6	0.1	2.1	34	1.9	17.3	40.6	20.3
AM90-111004	50.6	8	3.4	2.5	36	1.8	19.9	41.0	20.0
AM90-111022	48.7	16	2.0	2.1	37	1.9	17.1	43.2	19.1
AM90-211003	53.7	1	4.8	2.4	35	1.9	20.6	41.0	20.1
C1834	49.4	13	4.4	1.7	37	1.7	15.6	41.0	20.0
HS88-4905	48.5	18	-0.5	1.5	34	1.7	17.7	39.8	20.7
HS88-4906	50.4	10	6.7	2.3	35	1.8	17.1	39.7	20.5
HS88-4909	46.7	22	6.0	1.9	36	2.1	18.1	40.0	20.6
HS89-2839	47.2	20	7.1	1.5	32	2.1	18.2	39.5	20.3
HS89-2840	46.8	21	6.0	1.5	32	2.1	17.9	40.5	20.7
M86-1973	43.4	24	2.3	1.6	32	2.1	17.7	39.8	20.4
LN88-1496	48.7	16	2.7	2.4	33	2.0	18.4	40.4	20.3
LN88-1674	50.5	9	5.0	2.8	36	1.9	18.0	39.1	20.7
LN88-1682	50.0	12	3.0	2.5	35	1.9	18.6	39.6	20.4
LN88-9709	46.7	22	6.7	1.4	32	1.6	16.0	41.3	20.1
ORC8905	50.2	11	0.4	1.9	34	1.5	17.1	39.6	20.4
ORC9008	50.9	6	2.2	1.4	34	1.7	18.1	40.6	20.2
U8763041	49.2	14	-1.2	1.6	31	1.7	17.6	41.3	20.4
U89-2035	53.4	2	2.6	1.5	30	1.7	18.6	40.3	20.6
U90-2607	49.0	15	5.2	1.9	34	1.8	16.8	40.6	19.6

* 131.8 Days After Planting

UNIFORM TEST II, 1992

1991-1992 2-YEAR MEAN

No. of Tests Strain	Yield 48 bu/a	Rank 48 No.	Maturity 44 Date	Lodging 48 Score	Plant Height 48 In.	Seed Quality 46 Score	Seed Size 48 g/100	Composition Protein 10 %	Composition Oil 10 %
IA2007 (L)	51.4	1	4.6	1.8	35	2.0	18.1	38.8	21.1
Jack (SCN)	50.1	3	6.6	2.5	40	2.0	14.7	39.9	21.0
Kenwood (II)	49.9	5	9/17.0*	2.0	35	2.0	16.1	38.9	21.1
Sturdy (I)	46.8	10	-2.2	1.9	33	2.1	18.4	40.4	20.6
HS88-4905	47.9	8	-1.8	1.5	34	1.9	17.6	39.0	21.3
HS88-4906	50.2	2	4.2	2.2	35	1.9	17.2	38.8	21.2
HS88-4909	48.0	7	2.9	1.8	36	2.1	18.3	39.2	21.2
M86-1973	44.3	11	0.3	1.6	31	2.2	17.6	39.2	20.7
ORC 8905	48.9	6	0.6	1.8	34	1.8	17.1	39.4	21.0
U87-63041	47.7	9	-2.1	1.5	31	1.7	17.4	40.3	21.1
U89-2035	50.1	3	3.2	1.4	28	1.8	18.6	40.4	20.8

* 126.0 Days Afer Planting

1990-1992 3-YEAR MEAN

No. of Tests Strain	70	70	62	70	70	66	70	15	15
IA2007 (L)	52.7	1	4.4	1.8	35	2.0	18.3	39.3	21.3
Jack (SCN)	51.7	3	6.2	2.5	39	2.0	15.1	40.1	21.1
Kenwood (II)	51.9	2	9/19.0*	2.0	35	2.0	16.2	39.0	21.2
Sturdy (I)	48.7	5	-2.2	1.9	33	2.1	18.4	40.4	20.8
M86-1973	46.6	6	-0.1	1.6	31	2.2	17.8	39.1	20.9
U87-63041	49.4	4	-2.0	1.6	32	1.8	17.7	40.4	21.2

* 128.0 Days After Planting

UNIFORM TEST II, 1992

YIELD (bu/a)

Strain	Mean 24 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	53.2	61.4	57.2	50.0	71.9	66.0	75.5
Jack (SCN)	51.4	56.2	67.1	56.2	63.5	68.4	70.0
Kenwood (II)	51.1	61.0	56.1	57.5	60.3	62.0	71.9
Sturdy (I)	48.4	61.9	56.7	54.0	62.2	60.1	64.9
AKenwoodBC	50.9	63.5	58.5	48.9	64.2	59.5	68.0
AM90-111004	50.6	56.6	59.6	54.6	65.9	57.2	70.1
AM90-111022	48.7	60.0	56.4	50.4	61.0	60.9	67.6
AM90-211003	53.7	64.6	62.7	54.6	69.1	68.0	72.5
C1834	49.4	56.6	54.6	51.9	66.4	65.0	68.9
HS88-4905	48.5	61.7	52.0	59.2	64.4	65.0	70.9
HS88-4906	50.4	58.4	58.0	61.6	69.7	67.2	75.1
HS88-4909	46.7	61.4	51.8	60.3	64.3	66.3	71.9
HS89-2839	47.2	61.5	49.5	56.9	62.6	70.0	72.2
HS89-2840	46.8	59.4	51.5	56.4	63.7	65.8	71.0
M86-1973	43.4	60.6	50.2	57.5	59.3	61.1	71.0
LN88-1496	48.7	63.1	61.3	56.9	64.7	59.5	69.1
LN88-1674	50.5	59.7	58.2	56.2	69.2	60.0	71.6
LN88-1682	50.0	57.9	60.7	56.4	63.8	58.5	66.5
LN88-9709	46.7	60.0	51.9	55.4	67.1	65.3	68.0
ORC8905	50.2	60.2	53.4	60.7	63.4	57.6	63.8
ORC9008	50.9	62.1	56.9	60.5	63.3	65.4	76.4
U8763041	49.2	57.8	61.7	58.1	60.7	63.1	66.7
U89-2035	53.4	64.1	59.4	64.0	57.8	63.9	73.3
U90-2607	49.0	59.4	54.4	57.4	60.4	66.5	71.9
C.V. (%)		6.4	7.8	9.9	7.6	7.6	5.0
L.S.D. (5%)		6.3	7.1	9.1	ns	7.2	4.3
Row Sp. (In.)		27	27	27	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST II, 1992

YIELD (bu/a)

Strain	Bluff-ton* IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	34.2	56.8	61.4	53.8	50.8	58.1	62.6	65.7	49.3	38.4
Jack (SCN)	32.6	69.8	57.6	56.3	51.6	56.2	65.2	58.1	48.3	40.5
Kenwood (II)	30.7	58.0	67.1	47.6	52.0	63.9	63.1	60.6	51.6	42.6
Sturdy (I)	38.6	48.1	58.2	44.4	54.4	55.1	59.4	60.5	46.1	36.6
AKenwoodBC	39.8	58.4	61.6	45.4	53.9	62.1	59.1	61.6	52.8	37.9
AM90-111004	28.5	62.2	58.6	52.3	53.3	57.6	59.7	63.6	49.1	37.8
AM90-111022	34.4	55.6	55.6	42.7	47.9	55.0	56.6	60.0	51.2	41.0
AM90-211003	47.2	60.9	59.4	62.0	61.9	59.8	62.6	62.0	52.3	38.5
C1834	32.9	56.3	60.6	51.1	51.5	52.7	54.9	60.2	45.1	35.3
HS88-4905	22.8	52.3	50.5	45.2	49.7	65.2	59.6	49.3	51.3	35.6
HS88-4906	32.7	54.6	60.2	47.1	51.9	57.9	62.8	62.2	49.4	37.8
HS88-4909	30.2	58.0	56.7	34.1	49.5	54.4	67.3	50.9	38.2	37.8
HS89-2839	21.2	55.2	60.8	35.7	42.7	50.1	65.8	57.6	41.7	38.8
HS89-2840	40.3	54.8	56.4	39.9	47.9	50.3	66.1	53.8	44.5	35.5
M86-1973	17.6	49.2	51.5	29.6	42.9	51.6	57.8	58.7	43.4	37.6
LN88-1496	23.5	54.5	57.3	52.9	57.9	57.1	64.6	62.3	47.2	35.1
LN88-1674	27.0	59.4	57.9	58.7	58.1	54.5	60.2	67.3	48.8	37.2
LN88-1682	25.9	55.4	58.5	57.4	58.0	61.3	60.9	61.8	45.4	38.4
LN88-9709	31.1	55.1	48.6	46.7	49.5	47.5	64.0	60.0	49.3	
ORC8905	27.7	54.8	57.1	40.3	48.9	57.5	62.1	63.9	48.3	35.5
ORC9008	30.1	58.0	62.9	50.0	51.1	60.4	60.2	58.7	44.5	37.6
U8763041	16.9	56.4	50.5	42.3	46.2	58.3	64.1	63.0	46.3	38.8
U89-2035	27.3	58.4	58.6	52.1	58.5	60.4	64.2	64.5	51.9	45.3
U90-2607	29.0	57.7	59.7	40.7	50.0	53.7	61.7	62.7	47.2	38.4
C.V. (%)	25.2	7.4	8.0	10.2	11.5	7.4	6.7	6.4	6.4	7.6
L.S.D. (5%)	15.5	7.0	9.6	9.2	9.8	7.0	8.7	10.9	6.2	5.8
Row Sp. (In.)	24	24	30	30	10	10	30	30	30	30
Rows/Plot	4	4	4	4	10	10	4	4	4	4
Reps	2	3	2	2	3	3	2	3	3	3

* Data Not Included in the Mean

UNIFORM TEST II, 1992

YIELD (bu/a)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	45.7	57.6	45.3	48.2	48.2	30.8	46.3	33.5	41.6
Jack (SCN)	39.0	44.2	33.3	51.7	51.8	33.5	42.5	22.3	29.6
Kenwood (II)	34.7	37.1	39.2	53.2	50.5	25.9	39.4	31.8	39.1
Sturdy (I)	36.4	35.1	34.4	42.5	49.4	31.5	40.4	33.1	37.3
AKenwoodBC	38.6	48.4	40.8	52.8	54.5	26.6	38.3	31.5	34.8
AM90-111004	38.6	37.5	39.0	50.2	50.8	28.3	45.4	30.4	36.2
AM90-111022	34.3	47.2	36.4	46.0	50.7	28.2	40.9	27.8	34.2
AM90-211003	42.7	46.2	38.9	51.6	49.0	33.9	46.1	29.3	40.3
C1834	37.3	45.8	41.4	45.3	47.8	30.6	42.1	27.8	37.3
HS88-4905	36.4	39.1	23.8	48.5	48.2	25.6	44.3	27.3	37.8
HS88-4906	33.9	43.2	30.9	40.4	49.6	29.7	45.7	24.5	37.0
HS88-4909	29.4	41.5	22.8	38.8	49.1	25.2	38.3	19.3	33.7
HS89-2839	36.5	44.8	27.5	33.9	52.2	26.1	39.5	20.3	30.7
HS89-2840	36.7	39.7	30.6	31.4	53.6	23.5	41.3	17.4	32.6
M86-1973	27.2	31.1	29.8	31.3	50.2	21.6	35.5	16.5	15.3
LN88-1496	36.6	24.0	27.6	48.5	42.9	32.5	40.9	21.2	31.5
LN88-1674	38.9	36.1	35.6	50.1	47.1	32.8	38.7	21.7	34.0
LN88-1682	39.6	36.6	30.1	49.6	48.2	32.2	41.5	27.0	33.5
LN88-9709	36.8	37.2	34.8	44.1	52.8	33.0	41.3	22.5	30.9
ORC8905	34.9	52.0	39.3	45.0	50.2	32.4	45.2	32.3	46.6
ORC9008	44.8	31.8	42.7	47.9	50.5	30.2	36.6	29.6	38.4
U8763041	32.9	38.8	37.4	51.8	52.7	24.9	38.2	30.0	40.0
U89-2035	38.5	56.0	41.0	50.2	52.7	31.7	39.4	32.4	43.7
U90-2607	36.5	34.3	38.8	43.3	51.7	27.8	44.8	22.6	33.6
C.V. (%)	14.8	21.4	15.4	9.2	8.2	13.8	7.5	9.5	11.7
L.S.D. (5%)	9.0	14.6	8.8	7.0	ns	6.7	5.1	4.1	6.8
Row Sp. (In.)	30	30	30	24	24	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3	3

UNIFORM TEST II, 1992

YIELD RANK

Strain	Yield Rank	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	3	9	11	23	1	7	2
Jack (SCN)	4	24	1	15	14	2	15
Kenwood (II)	5	11	15	8	22	15	7
Sturdy (I)	19	6	13	20	18	19	23
AKenwoodBC	6	3	8	24	11	20	18
AM90-111004	8	22	6	18	7	24	14
AM90-111022	16	14	14	22	19	17	20
AM90-211003	1	1	2	18	4	3	5
C1834	13	22	16	21	6	11	17
HS88-4905	18	7	19	6	9	11	13
HS88-4906	10	19	10	2	2	4	3
HS88-4909	22	9	21	5	10	6	7
HS89-2839	20	8	24	11	17	1	6
HS89-2840	21	17	22	13	13	8	11
M86-1973	24	12	23	8	23	16	11
LN88-1496	16	4	4	11	8	20	16
LN88-1674	9	16	9	15	3	19	10
LN88-1682	12	20	5	13	12	22	22
LN88-9709	22	14	20	17	5	10	18
ORC8905	11	13	18	3	15	23	24
ORC9008	6	5	12	4	16	9	1
U8763041	14	21	3	7	20	14	21
U89-2035	2	2	7	1	24	13	4
U90-2607	15	17	17	10	21	5	7

UNIFORM TEST II, 1992

YIELD RANK

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	6	11	4	5	14	9	12	2	8	8
Jack (SCN)	9	1	15	4	11	14	4	20	12	4
Kenwood (II)	11	7	1	11	9	2	9	13	4	2
Sturdy (I)	4	24	13	16	6	15	20	14	17	18
AKenwoodBC	3	5	3	14	7	3	21	12	1	11
AM90-111004	15	2	10	7	8	11	18	5	10	12
AM90-111022	5	14	20	17	20	16	23	16	6	3
AM90-211003	1	3	9	1	1	7	11	10	2	7
C1834	7	13	6	9	12	20	24	15	19	23
HS88-4905	21	22	22	15	16	1	19	24	5	19
HS88-4906	8	20	7	12	10	10	10	9	7	12
HS88-4909	12	7	18	23	17	18	1	23	24	12
HS89-2839	22	16	5	22	24	23	3	21	23	5
HS89-2840	2	18	19	21	20	22	2	22	20	20
M86-1973	23	23	21	24	23	21	22	18	22	15
LN88-1496	20	21	16	6	5	13	5	8	14	24
LN88-1674	18	4	14	2	3	17	16	1	11	17
LN88-1682	19	15	12	3	4	4	15	11	18	8
LN88-9709	10	17	24	13	17	24	8	16	8	22
ORC8905	16	18	17	20	19	12	13	4	12	20
ORC9008	13	7	2	10	13	5	16	18	20	15
U8763041	24	12	22	18	22	8	7	6	16	5
U89-2035	17	5	10	8	2	5	6	3	3	1
U90-2607	14	10	8	19	15	19	14	7	14	8

UNIFORM TEST II, 1992

YIELD RANK

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	1	1	1	12	19	10	1	1	3
Jack (SCN)	5	9	16	4	7	2	8	18	23
Kenwood (II)	19	17	6	1	11	19	17	5	6
Sturdy (I)	16	20	15	19	16	9	15	2	9
AKenwoodBC	7	4	5	2	1	17	20	6	13
AM90-111004	7	15	8	6	9	14	4	7	12
AM90-111022	20	5	12	14	10	15	13	11	14
AM90-211003	3	6	9	5	18	1	2	10	4
C1834	10	7	3	15	22	11	9	11	9
HS88-4905	16	13	23	10	19	20	7	13	8
HS88-4906	21	10	17	20	15	13	3	15	11
HS88-4909	23	11	24	21	17	21	20	22	16
HS89-2839	14	8	22	22	6	18	16	21	22
HS89-2840	12	12	18	23	2	23	11	23	19
M86-1973	24	23	20	24	13	24	24	24	24
LN88-1496	13	24	21	10	24	5	14	20	20
LN88-1674	6	19	13	8	23	4	19	19	15
LN88-1682	4	18	19	9	19	7	10	14	18
LN88-9709	11	16	14	17	3	3	11	17	21
ORC8905	18	3	7	16	13	6	5	4	1
ORC9008	2	22	2	13	11	12	23	9	7
U8763041	22	14	11	3	4	22	22	8	5
U89-2035	9	2	4	6	4	8	17	3	2
U90-2607	14	21	10	18	8	16	6	16	17

UNIFORM TEST II, 1992

MATURITY (date)

Strain	Mean 21 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	6.1	10			8	7	6
Jack (SCN)	7.3	9			7	10	6
Kenwood (II)	09/21	09/16			09/21	09/14	09/09
Sturdy (I)	-0.2	-1			0	-2	-3
AKenwoodBC	0.1	0			1	0	1
AM90-111004	3.4	4			6	4	3
AM90-111022	2.0	4			2	1	2
AM90-211003	4.8	7			4	3	4
C1834	4.4	7			6	5	5
HS88-4905	-0.5	0			-2	-1	0
HS88-4906	6.7	11			8	7	8
HS88-4909	6.0	8			7	5	7
HS89-2839	7.1	9			8	5	6
HS89-2840	6.0	8			8	2	5
M86-1973	2.3	1			5	0	0
LN88-1496	2.7	4			2	1	2
LN88-1674	5.0	7			6	1	5
LN88-1682	3.0	4			4	0	4
LN88-9709	6.7	7			8	3	4
ORC8905	0.4	3			1	0	4
ORC9008	2.2	0			3	1	4
U8763041	-1.2	-2			-2	-1	1
U89-2035	2.6	4			4	1	4
U90-2607	5.2	8			7	4	4
Date Planted	05/12	05/07			05/04	05/01	05/07
Days to Mature	131.8	132			140	136	125

UNIFORM TEST II, 1992

MATURITY (date)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	4	6	12	9	7	6	0	4	5	
Jack (SCN)	5	7	9	7	6	4	10	5	5	
Kenwood (II)	09/15	09/11	09/23	09/26	09/28	09/28	09/10	09/21	09/29	
Sturdy (I)	-2	-2	1	2	-1	0	0	-1	2	
AKenwoodBC	1	1	1	-1	0	-1	0	-2	0	
AM90-111004	2	5	7	6	2	2	2	2	1	
AM90-111022	-1	1	1	3	2	2	0	2	2	
AM90-211003	5	5	9	7	4	4	1	3	2	
C1834	4	4	9	5	3	3	4	3	4	
HS88-4905	0	0	0	-3	-2	0	0	-2	-3	
HS88-4906	5	6	7	7	2	3	7	7	7	
HS88-4909	2	3	8	5	3	5	3	5	8	
HS89-2839	5	5	9	8	7	5	2	5	8	
HS89-2840	4	4	10	6	5	5	1	6	6	
M86-1973	0	0	7	0	-2	1	0	1	5	
LN88-1496	2	3	3	7	-1	2	1	0	2	
LN88-1674	3	4	9	9	6	4	4	1	3	
LN88-1682	3	3	4	6	0	1	2	1	2	
LN88-9709	6	4	8	8	7	7	3	4	5	
ORC8905	0	1	0	0	-2	-1	0	2	1	
ORC9008	3	2	3	4	-1	1	3	-2	2	
U8763041	2	-2	-1	-2	-1	1	0	-3	-6	
U89-2035	2	2	4	5	-1	2	5	-3	2	
U90-2607	2	3	11	6	5	5	3	2	4	
Date Planted	05/12	05/08	05/19	05/15	05/05	04/30	05/04	05/09	05/21	
Days to Mature	126	126	127	134	146	151	129	135	131	

UNIFORM TEST II, 1992

MATURITY (date)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	5	3	3	6	7	2	10		8
Jack (SCN)	7	9	6	11	8	7	8		8
Kenwood (II)	09/17	09/17	09/16	10/04	09/30	09/24	09/22		10/12
Sturdy (I)	0	-1	-1	0	1	2	4		-2
AKenwoodBC	1	-1	-1	0	0	1	2		-1
AM90-111004	3	5	1	3	3	2	3		6
AM90-111022	0	0	0	1	3	2	8		7
AM90-211003	5	3	3	7	5	8	5		6
C1834	4	1	3	4	3	4	5		7
HS88-4905	0	0	0	1	0	-2	3		0
HS88-4906	6	7	4	12	7	0	13		6
HS88-4909	3	8	4	15	8	1	13		6
HS89-2839	4	9	4	17	9	2	15		8
HS89-2840	4	7	4	14	8	2	13		5
M86-1973	0	3	-1	15	3	-2	4		8
LN88-1496	6	1	4	2	1	4	6		5
LN88-1674	6	0	4	6	4	5	13		6
LN88-1682	5	1	4	3	1	3	6		5
LN88-9709	4	6	4	14	8	7	15		9
ORC8905	0	0	1	-2	0	-3	6		-3
ORC9008	4	2	1	4	-1	2	6		6
U8763041	-1	0	-3	-2	-1	-4	2		0
U89-2035	4	1	2	8	4	2	3		0
U90-2607	2	1	3	13	6	4	8		9
Date Planted	06/10	05/15	05/07	05/21	05/21	05/20	05/05		05/27
Days to Mature	99	125	132	136	132	127	140		138

UNIFORM TEST II, 1992

LODGING (score)

Strain	Mean 25 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	2.0	1.9	2.9	2.8	2.5	1.7	2.0
Jack (SCN)	2.7	3.1	3.1	3.0	3.2	2.8	4.0
Kenwood (II)	2.1	1.8	2.4	2.4	2.8	2.2	2.0
Sturdy (I)	2.1	3.0	2.9	2.3	2.5	1.8	4.0
AKenwoodBC	2.1	1.7	2.4	2.1	2.7	2.0	2.0
AM90-111004	2.5	2.0	3.2	2.6	3.5	2.7	2.3
AM90-111022	2.1	1.9	2.8	2.3	2.7	2.2	2.3
AM90-211003	2.4	1.9	3.3	3.4	3.3	2.2	3.0
C1834	1.7	1.4	1.7	1.7	2.5	1.8	1.7
HS88-4905	1.5	1.5	1.9	1.7	2.0	1.8	2.0
HS88-4906	2.3	2.0	3.4	2.8	3.7	2.7	3.3
HS88-4909	1.9	1.6	2.1	1.8	2.8	2.0	2.3
HS89-2839	1.5	1.3	1.6	1.3	2.2	1.5	1.0
HS89-2840	1.5	1.3	1.8	1.4	2.2	1.7	1.0
M86-1973	1.6	1.5	2.5	1.6	2.5	2.2	2.0
LN88-1496	2.4	2.0	3.3	2.8	3.0	2.0	3.3
LN88-1674	2.8	3.0	3.4	3.0	3.3	2.3	3.7
LN88-1682	2.5	2.7	3.4	3.0	3.5	2.3	3.3
LN88-9709	1.4	1.3	1.6	1.3	2.5	1.5	1.0
ORC8905	1.9	1.7	3.3	2.0	2.2	2.0	3.7
ORC9008	1.4	1.2	1.5	1.3	2.2	1.3	1.0
U8763041	1.6	1.4	1.7	1.5	2.0	1.5	1.3
U89-2035	1.5	1.3	1.8	1.6	1.7	1.0	1.0
U90-2607	1.9	2.0	3.3	2.1	2.5	2.0	2.3

UNIFORM TEST II, 1992

LODGING (score)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	1.0	2.0	2.0	3.0	3.7	3.3	1.5	1.0	2.0	1.0
Jack (SCN)	1.0	3.0	2.5	2.5	3.0	2.3	4.0	1.7	3.0	2.0
Kenwood (II)	1.0	2.5	2.0	2.5	2.7	2.0	2.0	1.0	1.7	1.0
Sturdy (I)	1.0	2.5	2.5	3.0	3.0	2.0	2.0	1.3	2.0	1.0
AKenwoodBC	1.0	1.7	2.0	2.5	3.0	2.0	2.0	1.0	1.7	1.3
AM90-111004	1.0	2.0	2.5	3.0	4.7	4.0	2.0	1.0	2.3	1.0
AM90-111022	1.0	2.2	1.5	3.0	3.0	2.3	1.5	1.3	2.0	1.0
AM90-211003	1.0	1.7	2.5	3.5	4.0	3.0	1.5	1.0	2.3	1.0
C1834	1.0	1.2	1.5	2.0	2.7	2.3	1.5	1.0	1.7	1.0
HS88-4905	1.0	1.0	1.0	2.0	1.3	1.0	2.0	1.0	1.0	1.0
HS88-4906	1.0	2.7	2.0	3.0	3.3	2.0	3.5	1.0	2.7	1.0
HS88-4909	1.0	1.3	2.0	2.5	2.0	2.0	3.0	1.0	1.7	1.0
HS89-2839	1.0	1.0	1.0	2.0	1.7	2.0	1.0	1.0	1.0	1.0
HS89-2840	1.0	1.2	1.0	2.0	2.3	2.0	2.0	1.0	1.0	1.0
M86-1973	1.0	1.3	1.5	2.0	1.0	1.3	2.5	1.0	1.0	1.0
LN88-1496	1.0	2.5	2.5	3.0	3.3	3.3	2.5	1.0	2.3	1.0
LN88-1674	1.0	2.3	3.0	3.0	4.3	4.0	3.5	1.0	3.0	1.7
LN88-1682	1.0	2.2	2.0	3.0	3.7	3.3	3.0	1.0	3.0	1.0
LN88-9709	1.0	1.0	1.0	1.5	2.3	1.7	1.0	1.0	1.0	1.0
ORC8905	1.0	2.0	1.0	3.0	2.3	2.0	2.0	1.0	2.0	1.0
ORC9008	1.0	1.0	1.0	2.5	1.7	1.0	1.0	1.0	2.0	1.0
U8763041	1.0	1.0	1.5	3.0	1.7	2.0	1.0	1.0	1.0	1.0
U89-2035	1.0	1.0	1.0	2.0	2.3	1.7	1.0	1.0	2.3	1.0
U90-2607	1.0	1.5	1.0	2.0	3.7	2.7	2.0	1.0	1.7	1.0

UNIFORM TEST II, 1992

LODGING (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	1.3	1.4	1.5	2.6	2.0	1.3	2.0	1.3	3.3
Jack (SCN)	2.7	2.0	2.2	3.2	1.8	2.3	3.3	1.0	3.7
Kenwood (II)	3.3	1.2	2.5	3.0	1.7	2.0	2.0	1.3	3.7
Sturdy (I)	2.3	1.2	1.7	2.9	1.5	1.0	2.0	1.0	3.0
AKenwoodBC	3.0	1.5	2.5	3.2	2.0	1.3	2.0	2.0	3.3
AM90-111004	3.3	1.4	2.1	3.6	2.5	1.7	2.7	1.3	4.0
AM90-111022	2.3	1.4	2.3	3.4	1.5	1.0	2.3	1.0	3.7
AM90-211003	2.7	1.4	2.0	3.4	2.0	1.3	2.7	1.3	4.0
C1834	2.0	1.4	1.5	2.4	1.0	1.3	1.3	1.0	3.7
HS88-4905	2.0	1.3	1.6	2.2	1.0	1.3	1.7	1.0	3.0
HS88-4906	1.7	1.4	1.7	2.6	1.7	1.7	2.0	1.7	4.0
HS88-4909	2.0	1.3	1.6	2.3	1.3	1.3	2.0	1.3	3.3
HS89-2839	2.0	1.2	1.6	2.5	1.2	1.0	2.0	1.3	3.0
HS89-2840	1.7	1.2	1.7	2.4	1.0	1.0	1.3	1.0	3.0
M86-1973	1.7	1.2	1.8	1.4	1.2	1.3	2.0	1.0	3.7
LN88-1496	3.0	1.4	2.0	3.2	1.5	1.3	2.7	1.7	3.3
LN88-1674	3.0	1.3	2.5	3.4	2.3	1.7	3.7	2.0	3.7
LN88-1682	3.3	1.5	1.7	2.9	2.0	1.0	2.7	1.3	4.0
LN88-9709	1.0	1.2	1.6	1.6	1.2	1.0	1.3	1.0	3.0
ORC8905	1.7	1.3	1.5	2.4	1.0	1.0	2.0	1.0	3.7
ORC9008	1.0	1.3	1.5	2.5	1.0	1.0	1.7	1.0	3.0
U8763041	2.3	1.1	1.8	2.5	1.0	1.0	2.0	1.0	3.0
U89-2035	1.0	1.3	1.6	2.5	1.0	1.3	2.0	1.0	3.0
U90-2607	1.3	1.2	1.5	2.8	1.0	1.0	2.3	1.0	4.0

UNIFORM TEST II, 1992

PLANT HEIGHT (inches)

Strain	Mean 25 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	35	38	39	41	39	41	38
Jack (SCN)	38	44	44	46	41	48	44
Kenwood (II)	35	42	41	45	38	43	39
Sturdy (I)	34	36	40	39	36	39	37
AKenwoodBC	34	40	41	44	37	39	36
AM90-111004	36	42	42	43	37	42	39
AM90-111022	37	43	44	45	39	43	42
AM90-211003	35	39	39	44	34	38	39
C1834	37	43	46	44	42	45	41
HS88-4905	34	42	43	44	37	41	38
HS88-4906	35	42	41	42	36	41	41
HS88-4909	36	44	43	44	40	42	42
HS89-2839	32	41	38	41	33	38	37
HS89-2840	32	39	39	42	35	38	35
M86-1973	32	39	38	39	35	36	33
LN88-1496	33	40	39	41	37	39	37
LN88-1674	36	42	40	42	40	41	40
LN88-1682	35	40	40	44	38	43	41
LN88-9709	32	40	40	40	37	38	36
ORC8905	34	37	41	41	37	41	37
ORC9008	34	40	40	43	39	40	39
U8763041	31	37	40	38	34	38	36
U89-2035	30	34	38	37	32	31	30
U90-2607	34	39	40	42	37	39	37

UNIFORM TEST II, 1992

PLANT HEIGHT (inches)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	22	41	33	38	42	39	38	33	37	30
Jack (SCN)	23	45	42	42	40	42	42	41	44	35
Kenwood (II)	21	40	36	38	40	39	40	36	40	33
Sturdy (I)	25	39	36	38	37	37	38	34	37	33
AKenwoodBC	22	38	36	40	38	40	40	34	39	30
AM90-111004	24	42	37	38	39	39	43	37	41	32
AM90-111022	23	43	38	40	42	41	43	38	41	36
AM90-211003	23	39	36	39	40	38	39	36	37	33
C1834	19	42	38	39	42	41	43	38	40	31
HS88-4905	22	40	34	36	38	37	41	35	37	31
HS88-4906	22	40	34	34	38	37	41	37	38	31
HS88-4909	22	42	37	38	38	39	43	38	39	33
HS89-2839	19	36	32	36	33	36	38	33	34	29
HS89-2840	21	35	31	33	35	36	39	30	34	27
M86-1973	16	34	31	38	35	35	42	31	37	29
LN88-1496	20	39	34	37	35	37	39	33	38	30
LN88-1674	19	41	36	41	39	40	43	38	39	32
LN88-1682	20	40	37	39	40	37	39	37	42	33
LN88-9709	20	35	31	33	35	37	35	29	34	29
ORC8905	21	38	35	36	38	34	39	35	39	28
ORC9008	20	39	34	34	37	39	41	34	37	29
U8763041	17	36	30	33	34	37	36	32	33	29
U89-2035	21	32	30	31	33	30	30	29	33	27
U90-2607	21	39	35	37	38	40	36	34	37	31

UNIFORM TEST II, 1992

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	28	31	28	39	33	25	35	28	31
Jack (SCN)	31	29	26	47	32	29	37	28	32
Kenwood (II)	29	24	30	41	31	27	33	27	29
Sturdy (I)	29	24	26	43	32	28	32	28	31
AKenwoodBC	27	27	25	37	32	27	34	26	29
AM90-111004	28	28	29	44	33	29	34	33	31
AM90-111022	27	31	27	40	35	27	35	28	32
AM90-211003	29	28	27	44	32	27	32	29	29
C1834	30	31	29	42	34	28	36	30	32
HS88-4905	29	29	25	35	30	27	34	27	29
HS88-4906	27	28	26	38	32	26	33	28	31
HS88-4909	30	29	25	40	32	26	34	30	30
HS89-2839	28	27	24	33	28	24	31	26	28
HS89-2840	27	23	23	39	28	24	30	27	25
M86-1973	27	23	25	38	28	23	31	24	28
LN88-1496	30	26	24	37	27	26	32	28	25
LN88-1674	30	26	27	41	30	28	35	29	30
LN88-1682	29	28	25	39	33	28	32	29	29
LN88-9709	26	22	23	33	29	23	31	27	28
ORC8905	26	29	30	38	28	25	32	26	30
ORC9008	28	28	28	38	31	26	31	29	28
U8763041	24	23	26	31	29	23	32	26	27
U89-2035	25	26	21	39	27	25	28	25	28
U90-2607	26	22	25	38	29	26	34	26	31

UNIFORM TEST II, 1992

SEED QUALITY (score)

Strain	Mean 23 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	1.8	1.3	1.8	1.8	1.3	1.3	1.2
Jack (SCN)	1.7	1.5	1.6	1.6	1.3	1.3	1.2
Kenwood (II)	1.9	1.2	1.5	2.0	1.5	1.4	1.2
Sturdy (I)	2.0	1.2	1.5	2.5	1.2	1.4	1.2
AKenwoodBC	1.9	1.5	1.7	2.0	1.4	1.3	1.3
AM90-111004	1.8	1.3	1.8	2.3	1.2	1.2	1.2
AM90-111022	1.9	1.2	1.6	2.0	1.3	1.3	1.2
AM90-211003	1.9	1.5	1.4	2.2	1.2	1.4	1.2
C1834	1.7	1.7	1.5	2.3	1.2	1.4	1.2
HS88-4905	1.7	1.6	1.7	2.0	1.4	1.3	1.3
HS88-4906	1.8	1.8	1.7	2.4	1.5	1.3	1.3
HS88-4909	2.1	1.6	2.1	2.0	1.8	1.4	1.4
HS89-2839	2.1	2.0	2.2	2.0	2.0	1.2	1.2
HS89-2840	2.1	1.2	1.8	2.6	1.7	1.3	1.2
M86-1973	2.1	2.1	1.7	2.1	1.5	2.0	1.7
LN88-1496	2.0	1.3	1.6	2.5	1.7	1.5	1.2
LN88-1674	1.9	1.8	1.5	2.3	1.2	1.3	1.2
LN88-1682	1.9	1.8	1.5	2.5	1.2	1.5	1.2
LN88-9709	1.6	1.4	1.4	1.5	1.2	1.2	1.2
ORC8905	1.5	1.7	1.6	1.8	1.3	1.5	1.2
ORC9008	1.7	1.7	1.5	2.4	1.2	1.3	1.5
U8763041	1.7	1.2	1.7	1.5	1.2	1.4	1.2
U89-2035	1.7	1.3	1.4	1.3	1.2	1.4	1.2
U90-2607	1.8	1.3	1.7	2.5	1.2	1.3	1.2

UNIFORM TEST II, 1992

SEED QUALITY (score)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	1.0	1.0			2.0	1.7	3.0	1.7	2.0	2.0
Jack (SCN)	1.0	1.0			2.0	1.7	2.0	2.0	2.0	1.3
Kenwood (II)	1.0	1.0			2.0	1.7	3.0	1.7	1.7	2.0
Sturdy (I)	1.0	1.5			1.7	2.0	3.0	1.7	2.0	2.0
AKenwoodBC	1.0	1.0			2.0	1.7	3.0	1.7	1.7	1.7
AM90-111004	1.0	1.0			2.0	1.7	3.0	1.7	2.0	1.7
AM90-111022	1.0	1.5			1.7	2.0	3.0	1.7	1.7	1.7
AM90-211003	1.0	1.0			2.3	2.0	3.0	2.0	2.0	2.0
C1834	1.0	1.0			1.7	1.7	2.0	1.7	2.0	1.7
HS88-4905	1.0	1.0			1.7	1.7	2.0	1.7	2.0	1.0
HS88-4906	1.0	1.0			2.0	2.3	2.0	2.0	2.0	1.3
HS88-4909	1.0	1.0			2.0	2.7	2.0	1.7	3.0	2.0
HS89-2839	1.0	1.0			2.7	2.7	2.0	1.7	2.3	1.3
HS89-2840	1.0	1.0			2.7	2.3	2.0	2.0	2.0	2.0
M86-1973	1.0	1.0			3.0	2.3	3.0	1.7	3.7	1.7
LN88-1496	1.0	1.0			2.0	2.0	3.0	2.0	2.3	1.7
LN88-1674	1.0	1.0			2.3	2.0	3.0	1.7	1.7	1.7
LN88-1682	1.0	1.0			2.3	2.0	3.0	1.3	2.0	2.0
LN88-9709	1.0	1.0			2.0	2.0	2.0	1.0	1.7	1.7
ORC8905	1.0	1.0			1.3	1.7	2.0	1.3	1.0	2.0
ORC9008	1.0	1.0			2.3	2.0	2.0	1.7	2.0	1.3
U8763041	1.0	1.0			1.3	1.7	3.0	1.3	2.0	1.3
U89-2035	1.0	1.5			2.0	1.7	3.0	1.7	1.7	2.0
U90-2607	1.0	1.0			2.7	2.0	2.0	1.7	2.0	2.3

UNIFORM TEST II, 1992

SEED QUALITY (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	1.0	2.3	1.7	1.0	2.0	2.0	3.7	2.7	2.0
Jack (SCN)	2.0	1.2	2.3	1.0	1.0	2.0	3.3	3.0	2.0
Kenwood (II)	2.0	2.4	2.0	3.2	2.0	2.0	4.0	1.3	2.0
Sturdy (I)	1.7	2.3	2.3	3.8	2.0	2.0	3.3	3.0	2.0
AKenwoodBC	1.7	2.1	1.9	1.9	1.0	2.0	3.3	3.0	3.0
AM90-111004	1.3	2.2	2.1	1.1	2.0	2.0	3.7	3.0	2.0
AM90-111022	1.3	2.3	2.6	2.6	2.0	2.0	4.0	2.7	2.0
AM90-211003	1.7	2.4	1.5	1.3	2.0	2.0	3.7	3.7	2.0
C1834	1.0	2.1	1.6	2.2	1.0	2.0	2.3	3.0	2.0
HS88-4905	1.0	2.0	1.7	2.2	1.0	2.0	3.0	2.7	2.0
HS88-4906	1.3	1.6	1.3	3.0	1.0	2.0	3.0	3.0	2.0
HS88-4909	2.0	2.4	3.0	2.3	2.0	2.0	4.0	3.7	2.0
HS89-2839	1.3	2.2	3.0	3.3	2.0	2.0	3.7	3.0	3.0
HS89-2840	2.0	2.3	2.5	3.6	2.0	2.0	3.0	3.3	3.0
M86-1973	1.7	2.5	1.4	2.9	1.0	2.0	3.7	2.7	2.0
LN88-1496	1.7	2.3	2.5	1.3	2.0	2.0	4.0	2.7	2.0
LN88-1674	1.7	2.4	1.5	1.1	3.0	2.0	3.3	2.7	2.0
LN88-1682	1.7	2.5	2.0	1.6	1.0	2.0	3.7	3.0	2.0
LN88-9709	1.0	1.2	2.0	1.2	1.0	2.0	3.3	2.0	2.0
ORC8905	1.0	1.5	1.3	1.0	1.0	2.0	3.0	2.3	2.0
ORC9008	1.0	1.4	1.6	1.4	1.0	2.0	3.0	2.7	2.0
U8763041	1.7	2.0	1.5	1.6	2.0	2.0	3.3	2.7	2.0
U89-2035	1.0	2.3	1.5	1.3	1.0	2.0	3.3	2.7	2.0
U90-2607	1.0	1.6	1.3	2.0	1.0	2.0	3.7	3.0	2.0

UNIFORM TEST II, 1992

SEED SIZE (g/100)

Strain	Mean 24 Tests	Ames IA	Arcadia IA	Grand Junction IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	18.2	18.1	19.5	18.1	18.1	19.9	18.3
Jack (SCN)	15.3	14.8	15.9	15.4	16.2	16.9	14.8
Kenwood (II)	16.7	17.2	17.6	17.1	17.0	16.7	15.9
Sturdy (I)	18.7	19.3	19.6	19.3	20.1	19.2	18.9
AKenwoodBC	17.3	17.6	17.6	18.5	18.8	17.0	17.4
AM90-111004	19.9	20.0	20.8	20.2	21.0	20.7	21.3
AM90-111022	17.1	17.2	17.2	16.8	17.1	17.7	19.0
AM90-211003	20.6	21.2	22.0	21.4	22.1	22.5	23.7
C1834	15.6	16.2	16.2	16.0	16.8	16.3	17.2
HS88-4905	17.7	18.6	18.3	18.6	17.8	19.2	20.8
HS88-4906	17.1	17.3	17.6	17.6	17.6	18.8	19.5
HS88-4909	18.1	18.5	18.2	19.0	17.7	21.3	20.7
HS89-2839	18.2	18.0	18.4	18.2	19.0	19.6	19.8
HS89-2840	17.9	17.9	18.2	18.1	18.3	19.7	20.6
M86-1973	17.7	19.0	18.8	18.6	18.5	19.0	18.8
LN88-1496	18.4	18.8	18.7	18.0	19.6	19.8	19.3
LN88-1674	18.0	18.0	19.5	19.0	20.1	19.4	20.3
LN88-1682	18.6	18.2	18.9	19.3	20.3	20.1	20.2
LN88-9709	16.0	16.0	16.4	17.0	16.5	16.6	16.9
ORC8905	17.1	17.4	17.8	18.0	18.1	17.8	18.9
ORC9008	18.1	17.5	18.0	17.6	19.1	18.2	19.3
U8763041	17.6	18.6	18.0	19.6	18.5	19.3	19.4
U89-2035	18.6	19.4	19.7	20.3	18.9	19.9	20.9
U90-2607	16.8	17.3	17.8	17.4	16.9	18.1	18.0

UNIFORM TEST II, 1992

SEED SIZE (g/100)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	East Lansing MI	Lamber-ton MN	Waseca MN	Spick-ard MO	David City NE	Hart-ington NE	Ord NE
IA2007 (L)	15.3	17.4	18.2	20.0	20.7	19.0	13.0	20.7	21.1	14.8
Jack (SCN)	13.8	15.0	14.6	16.6	17.8	15.1	12.0	17.4	16.9	13.1
Kenwood (II)	13.8	14.6	17.2	17.9	20.1	18.2	13.0	19.0	20.5	14.8
Sturdy (I)	15.6	18.2	18.1	18.8	21.0	18.9	14.0	21.2	22.1	16.3
AKenwoodBC	15.4	15.8	18.0	18.9	21.9	19.4	13.0	19.1	20.9	14.5
AM90-111004	16.1	19.2	20.0	20.5	21.8	22.0	14.0	21.6	22.7	17.3
AM90-111022	13.9	17.4	16.6	18.8	20.7	18.2	13.0	19.3	20.3	15.0
AM90-211003	17.1	18.7	20.4	23.2	24.4	23.1	14.0	22.7	23.4	16.8
C1834	13.6	14.4	15.4	16.8	17.4	15.7	12.0	18.3	17.8	13.4
HS88-4905	14.4	16.9	16.2	17.2	18.9	18.5	19.0	19.5	21.2	14.8
HS88-4906	14.1	17.1	16.4	17.2	19.0	17.2	13.0	18.6	19.6	14.4
HS88-4909	16.7	18.0	17.2	16.6	19.1	17.0	19.5	20.1	19.1	15.4
HS89-2839	18.3	18.1	17.4	17.7	20.1	18.3	14.0	19.0	21.2	15.4
HS89-2840	16.2	18.1	16.9	17.6	19.7	18.6	15.0	20.5	19.9	15.2
M86-1973	14.7	16.2	15.7	16.3	20.4	18.6	14.0	19.6	21.9	14.4
LN88-1496	16.5	18.1	17.4	18.6	20.5	19.6	13.0	21.4	20.3	15.1
LN88-1674	14.7	17.5	17.3	19.6	21.4	19.0	12.0	20.4	20.1	14.7
LN88-1682	18.5	16.9	17.7	20.3	21.8	18.5	13.0	20.7	19.8	16.0
LN88-9709	14.1	15.1	16.4	16.9	19.3	15.4	13.0	18.3	18.0	13.4
ORC8905	15.3	17.4	17.2	16.6	17.9	18.0	12.0	20.1	20.7	14.8
ORC9008	16.1	16.3	18.8	19.5	20.9	19.4	13.0	20.4	21.6	15.2
U8763041	13.7	18.9	17.4	18.6	19.0	18.8	12.0	20.0	20.3	15.2
U89-2035	17.7	18.4	17.8	20.0	20.8	19.1	14.0	19.8	21.3	16.1
U90-2607	14.7	16.5	16.4	17.0	19.2	17.2	14.0	19.3	19.4	14.8

UNIFORM TEST II, 1992

SEED SIZE (g/100)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridg-town Ont.	Woods-lee Ont.	State College PA	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	18.0	18.0	18.5		18.6	19.9	18.0	15.0	17.7
Jack (SCN)	14.7	15.9	14.5		15.9	17.2	15.3	12.7	14.5
Kenwood (II)	15.7	17.4	15.7		16.9	15.7	16.3	16.3	15.3
Sturdy (I)	17.0	20.3	18.4		19.3	20.5	18.7	17.3	16.8
AKenwoodBC	15.7	16.8	15.2		18.8	17.1	15.3	16.7	16.4
AM90-111004	20.7	19.9	18.8		21.6	21.6	19.7	17.7	17.9
AM90-111022	15.7	17.4	16.1		17.1	16.2	17.3	16.3	16.1
AM90-211003	19.0	19.2	17.9		21.2	22.0	21.0	17.7	19.4
C1834	15.0	15.4	14.1		15.4	16.5	15.3	14.7	13.8
HS88-4905	16.0	19.1	15.2		17.3	17.2	18.0	17.0	15.5
HS88-4906	16.0	18.2	15.1		18.4	19.1	16.7	16.3	14.5
HS88-4909	16.7	20.3	17.7		18.1	19.5	17.0	16.0	14.6
HS89-2839	16.0	21.1	18.1		18.6	18.7	18.0	16.7	16.2
HS89-2840	16.3	19.1	16.7		18.5	17.8	17.7	16.3	15.7
M86-1973	14.7	20.2	15.5		18.6	18.0	17.0	18.0	18.2
LN88-1496	19.3	19.0	18.8		18.1	19.9	19.0	16.7	15.7
LN88-1674	17.3	18.1	17.4		18.0	19.6	18.3	15.7	15.7
LN88-1682	18.3	17.5	17.9		19.3	18.9	19.0	17.7	17.4
LN88-9709	15.0	14.9	14.9		17.1	16.7	16.0	14.0	15.6
ORC8905	16.7	16.6	16.4		17.0	17.9	18.0	14.0	16.0
ORC9008	18.3	18.6	16.2		18.0	20.3	18.0	17.0	16.6
U8763041	17.3	16.8	16.4		17.3	17.5	16.7	16.0	16.2
U89-2035	17.7	19.7	14.3		17.9	20.8	18.3	16.3	16.4
U90-2607	17.0	14.6	15.1		16.8	17.2	16.3	17.0	15.4

UNIFORM TEST II, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	39.4	38.4	40.1	40.5	38.4
Jack (SCN)	40.4	39.8	40.9	40.8	40.3
Kenwood (II)	40.3	39.3	39.9	41.5	40.5
Sturdy (I)	41.1	40.2	41.1	41.1	42.0
AKenwoodBC	40.6	40.1	39.7	41.5	41.1
AM90-111004	41.0	40.4	41.0	42.2	40.2
AM90-111022	43.2	41.6	43.0	44.3	43.7
AM90-211003	41.0	40.4	40.7	42.5	40.3
C1834	41.0	40.2	40.8	41.7	41.2
HS88-4905	39.8	39.4	39.6	40.8	39.3
HS88-4906	39.7	39.0	38.5	40.8	40.4
HS88-4909	40.0	40.0	39.6	40.5	39.8
HS89-2839	39.5	39.0	39.2	40.1	39.8
HS89-2840	40.5	40.0	39.4	40.3	42.1
M86-1973	39.8	38.8	40.0	40.0	40.3
LN88-1496	40.4	38.3	40.9	42.2	40.3
LN88-1674	39.1	37.6	39.1	40.2	39.6
LN88-1682	39.6	38.3	40.2	40.6	39.4
LN88-9709	41.3	41.0	41.5	42.3	40.2
ORC8905	39.6	38.6	39.7	40.5	39.6
ORC9008	40.6	39.6	41.3	41.2	40.4
U8763041	41.3	40.9	41.5	41.5	41.3
U89-2035	40.3	40.2	40.3	40.6	40.1
U90-2607	40.6	39.9	40.2	41.7	40.7

UNIFORM TEST II, 1992

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	20.6	20.3	21.1	21.1	19.9
Jack (SCN)	20.6	20.4	20.7	21.5	19.6
Kenwood (II)	20.3	20.0	21.1	20.6	19.5
Sturdy (I)	20.0	19.9	20.7	20.9	18.4
AKenwoodBC	20.3	20.5	21.3	20.7	18.5
AM90-111004	20.0	19.6	20.9	20.1	19.5
AM90-111022	19.1	19.0	19.9	19.1	18.3
AM90-211003	20.1	19.9	21.3	19.2	19.9
C1834	20.0	19.5	21.4	20.3	18.8
HS88-4905	20.7	20.6	21.5	20.4	20.1
HS88-4906	20.5	19.6	22.1	20.9	19.4
HS88-4909	20.6	19.7	21.4	21.2	19.9
HS89-2839	20.3	19.3	21.5	20.9	19.5
HS89-2840	20.7	21.7	21.7	21.1	18.2
M86-1973	20.4	20.6	20.8	20.8	19.5
LN88-1496	20.3	20.7	21.1	19.8	19.7
LN88-1674	20.7	20.6	21.4	20.4	20.2
LN88-1682	20.4	20.6	21.0	20.1	19.9
LN88-9709	20.1	19.1	21.2	19.7	20.3
ORC8905	20.4	20.4	21.4	20.4	19.3
ORC9008	20.2	19.6	20.9	20.5	19.7
U8763041	20.4	20.0	21.5	20.8	19.3
U89-2035	20.6	20.2	21.8	20.6	19.9
U90-2607	19.6	19.2	21.0	19.5	18.7

PRELIMINARY TEST IIA, 1992

Strain	Parentage	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	F5	
IA2008 (BSR)	BSR 101 x A80-344003	F5	BSR resis.
Kenwood (II)	Elgin x Asgrow A1937	F5	
Sturdy (I)	M70-127 x Century	F5	
A91-501003	Northrup King S23-03 x A86-301024	F5	BSR resis.
A91-501006	A86-301024 x Dekalb 226	F5	BSR resis.
A91-501023	A86-301024 x Northrup King S23-03	F5	BSR resis.
A91-501031	Marcus x Kenwood	F5	
A91-501055	Elgin 87 x Marcus	F5	
A91-607014	Kenwood x Dekalb 226	F5	
A91-607023	Dairyland DSR 304 x Kenwood	F5	
A91-607024	Asgrow A3205 x Dairyland DSR 304	F5	
A91-607032	Asgrow A3205 x Kenwood	F5	
A91-607037	Dekalb 226 x AgriPro AP2190	F5	
A91-607041	Dekalb 226 x Asgrow A3205	F5	
A91-607052	Elgin 87 x Marcus	F5	
A91-607053	Elgin 87 x Conrad	F5	
A91-701007	Northrup King S23-03 x A86-301024	F5	BSR resis.
A91-703019	Dairyland DSR 304 x Dekalb 226	F5	
C1861	Resnik x C1699	F6	
E91024	Dairyland DSR 171 x A82-263010	F4	
E91031	E8410 x Conrad	F4	
E91034	RS2460P x J-231	F4	
HM 9140	Hack x HM8472	F5	
HM 9143	Hack x HM8572	F5	
HM 9145	Hack x HM8472	F5	
HS90-3464	Chamberlain x HS84-6224	F5	
HS90-3465	Chamberlain x HS84-6224	F5	
HS90-3470	Chamberlain x HS84-6224	F5	
HS90-3473	Chamberlain x HS84-6224	F5	
HS90-3474	Chamberlain x HS84-6224	F5	
HS90-3475	Chamberlain x HS84-6224	F5	
HS90-3483	HS84-6276 x Conrad	F5	
HS90-37100	HS84-6224 x Conrad	F5	
LL87-175	Marshall x Williams	F6	SMV resis.
LL88-35	Williams 79 x PI 486.355	F6	SMV resis
LL88-36	Williams 79 x PI 486.355	F6	SMV resis.
LL89-347	Marshall x Williams	F6	SMV resis.

PRELIMINARY TEST IIA, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Germination Lafayette %	BSR - Boone Plant n %	BSR - Boone Stem n %
IA2007 (L)	PTBDYBrI	86	100	72.7
IA2008 (BSR)	WGTIYBfI	88	60	20.0
Kenwood (II)	PTBDYBlI	90	100	89.4
Sturdy (I)	PGBDYIbI	90	100	65.5
A91-501003	PGBIYBfI	98	100	69.4
A91-501006	PGBSYIbI	92	100	60.9
A91-501023	PTBDYBlI	86	100	88.4
A91-501031	PTTDYBlI	94	100	81.7
A91-501055	PTBDYBrI	82	100	89.3
A91-607014	PGBDYBfI	96	100	89.5
A91-607023	PTBDYBlI	96	100	79.3
A91-607024	PTBIYBlI	90	100	77.7
A91-607032	PTBDYBfI	98	90	38.8
A91-607037	PGBDYBfI	92	100	62.3
A91-607041	PTBDYBfI	84	100	70.7
A91-607052	WTBDYBlI	96	100	76.1
A91-607053	PTBDYBlI	94	100	79.5
A91-701007	PGBDYIbI	96	70	10.4
A91-703019	PTBDYBlI	94	100	69.7
C1861	PTTIYBlI	90	100	57.8
E91024	WG+TDYBf+BlI	96	90	56.5
E91031	PTTDYBlI	98	100	53.5
E91034	PGBDYYI	86	100	83.7
HM9140	PTTDYBfI	80	100	81.7
HM9143	PTTDYBrI	92	90	66.0
HM9145	PTTDYBrI	90	100	64.5
HS90-3464	PTBSYBlI	90	70	13.1
HS90-3465	PTBDYBlI	94	100	86.9
HS90-3470	PTBIYBlI	80	40	11.3
HS90-3473	PTBIYBlI	86	70	16.5
HS90-3474	PTBDYBlI	80	90	61.5
HS90-3475	PTBIYBlI	88	90	57.4
HS90-3483	PTBDYBfI	98	100	81.4
HS90-37100	PTBDYBl+BrI	94	80	36.0
LL87-175	WTBIYBlI	92	100	65.2
LL88-35	WTTIYBlI	86	70	27.0
LL88-36	WTTIYBlI	78	90	35.5
LL89-347	WTBIYBlI	68	100	58.1

PRELIMINARY TEST IIA, 1992

DISEASE DATA

Strain	PR Phyto. Tolerance NW Branch	PR Urbana Race 1	PR Ames Race 4	PR Lafayette Race 7	PS Lafayette a %	PSB Lafayette n %	SMV a Score
IA2007 (L)		R	NT	R	16	2	3E
IA2008 (BSR)	5.6	R	S	S	28	0	2M
Kenwood (II)		S	NT	S	27	2	2M
Sturdy (I)		R	NT	S	28	2	2E
A91-501003	4.8	R	H	S	6	0	2E
A91-501006	4.8	R	S	S	14	0	3E
A91-501023	4.6	S	S	S	15	0	2E
A91-501031	4.5	S	S	S	23	0	1
A91-501055	4.4	S	S	S	23	0	1
A91-607014	5.4	S	H	S	11	0	1
A91-607023	6.3	S	S	S	16	0	2E
A91-607024	4.1	S	S	S	21	0	2M
A91-607032	4.0	S	S	S	4	0	2E
A91-607037	4.5	S	S	S	37	0	2E
A91-607041	6.1	H	S	S	16	0	3E
A91-607052	5.5	R	R	R	8	0	4E
A91-607053	4.0	R	R	R	18	0	2S
A91-701007	3.3	H	S	H	1	0	2E
A91-703019	4.4	S	S	S	24	0	2S
C1861	3.6	R	R	R	3	0	1
E91024	4.4	R	S	S	48	0	1
E91031	4.0	H	S	S	5	0	1
E91034	4.8	S	S	S	43	0	1
HM9140	4.1	H	H	S	6	0	2M
HM9143	5.5	S	S	S	6	0	2E
HM9145	5.6	S	S	S	5	0	2E
HS90-3464	4.0	R	S	S	17	0	2S
HS90-3465	3.3	R	H	R	14	0	3S
HS90-3470	4.8	R	S	R	10	0	2E
HS90-3473	3.3	R	H	R	11	0	1
HS90-3474	3.8	R	S	H	20	0	2S
HS90-3475	3.0	R	S	R	26	2	4S
HS90-3483	3.8	S	S	S	3	0	2E
HS90-37100	3.5	R	H	R	14	0	4E
LL87-175	3.8	R	S	S	8	0	1
LL88-35	4.1	R	S	R	2	0	3E
LL88-36	4.0	R	S	R	5	0	2M
LL89-347	4.0	S	S	S	11	0	3E

PRELIMINARY TEST IIA, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 11 Score	Seed Size 11 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	53.9	5	5.9	2.1	36	1.7	18.7	39.6	20.6
IA2008 (BSR)	53.5	8	1.1	2.8	36	1.9	14.7	39.3	20.0
Kenwood (II)	51.6	16	09/21*	2.1	36	1.7	16.8	40.2	20.1
Sturdy (I)	49.8	26	-0.3	2.3	35	2.0	18.9	41.2	19.9
A91-501003	49.8	26	-0.9	1.6	35	2.0	18.2	43.2	18.6
A91-501006	49.9	24	-1.4	1.2	32	1.8	18.3	40.2	19.5
A91-501023	51.0	19	-2.0	2.6	33	1.7	18.9	40.9	19.7
A91-501031	52.7	12	0.9	2.2	35	2.0	18.5	39.7	20.7
A91-501055	53.6	7	-0.5	1.7	33	1.7	19.9	39.8	20.3
A91-607014	49.5	29	2.0	1.8	32	1.7	18.2	39.9	20.3
A91-607023	52.4	14	-1.2	1.9	35	1.8	17.5	40.2	20.1
A91-607024	55.2	2	5.7	1.9	38	1.7	15.9	41.1	19.5
A91-607032	53.9	5	3.7	1.7	33	1.7	16.2	42.0	19.4
A91-607037	52.5	13	1.1	1.7	34	2.0	19.3	41.1	20.3
A91-607041	50.8	20	0.2	1.8	32	1.6	19.9	40.0	20.5
A91-607052	53.2	11	-1.7	1.8	31	1.7	19.1	39.0	21.4
A91-607053	54.1	4	0.8	1.6	32	1.7	18.7	41.6	19.5
A91-701007	55.2	2	8.4	1.9	38	1.6	17.1	41.4	19.3
A91-703019	45.1	33	4.0	2.0	38	2.0	18.2	41.8	19.4
C1861	44.6	35	7.9	2.0	38	1.9	18.2	42.4	19.0
E91024	50.5	21	6.0	2.3	35	2.1	16.6	41.0	19.1
E91031	56.4	1	1.1	1.7	35	1.8	16.9	39.4	20.2
E91034	51.5	17	2.9	2.4	34	1.9	17.0	41.3	20.1
HM9140	47.5	32	0.1	1.6	31	1.6	17.7	39.5	21.1
HM9143	53.4	9	3.2	1.8	34	1.7	16.8	39.3	20.1
HM9145	53.4	9	3.5	1.9	34	1.7	16.4	39.4	20.1
HS90-3464	50.5	21	5.8	1.8	36	1.7	20.1	41.6	20.2
HS90-3465	49.6	28	7.5	2.2	37	1.8	17.5	40.6	19.6
HS90-3470	49.9	24	9.7	2.2	36	1.8	18.8	41.3	19.8
HS90-3473	52.3	15	6.9	2.3	36	1.6	18.7	41.5	19.8
HS90-3474	49.4	30	5.9	2.8	36	1.6	18.8	40.9	19.9
HS90-3475	48.1	31	10.1	2.3	38	1.7	19.4	41.2	20.1
HS90-3483	51.3	18	8.8	2.1	35	1.8	17.8	38.5	20.1
HS90-37100	50.3	23	4.9	2.3	38	1.7	16.5	40.3	19.6
LL87-175	44.2	36	2.4	1.5	36	1.6	19.9	41.3	20.0
LL88-35	44.9	34	1.2	1.6	29	1.7	13.6	42.6	17.9
LL88-36	42.5	38	2.5	1.4	31	1.6	13.6	42.2	17.5
LL89-347	43.7	37	1.4	1.5	33	1.6	19.9	40.1	20.7

* 128.7 Days After Planting

PRELIMINARY TEST IIA, 1992

YIELD (bu/a)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	53.9	65.6	56.7	68.0	59.1	41.9
IA2008 (BSR)	53.5	63.8	56.0	64.3	49.9	53.6
Kenwood (II)	51.6	62.6	57.7	62.7	58.3	43.1
Sturdy (I)	49.8	59.3	55.7	59.3	60.8	41.1
A91-501003	49.8	58.9	61.7	63.4	52.4	49.4
A91-501006	49.9	56.3	56.6	69.1	47.7	47.0
A91-501023	51.0	62.2	52.7	67.2	55.0	39.1
A91-501031	52.7	60.2	56.7	68.5	54.4	45.9
A91-501055	53.6	66.7	64.9	74.3	58.6	42.0
A91-607014	49.5	63.2	57.9	64.3	52.1	33.1
A91-607023	52.4	62.4	56.2	65.3	54.5	48.5
A91-607024	55.2	61.6	67.2	72.5	62.7	39.2
A91-607032	53.9	61.2	54.9	71.1	65.1	50.4
A91-607037	52.5	61.7	61.8	69.6	56.9	39.3
A91-607041	50.8	62.1	57.7	62.7	59.9	38.7
A91-607052	53.2	61.4	60.8	64.1	56.6	38.2
A91-607053	54.1	60.1	60.3	66.6	53.7	47.0
A91-701007	55.2	64.3	63.5	72.6	62.2	52.1
A91-703019	45.1	59.0	51.0	59.6	49.5	22.4
C1861	44.6	50.3	47.1	64.0	53.1	29.5
E91024	50.5	62.0	57.1	64.5	51.6	36.6
E91031	56.4	67.6	60.9	75.1	58.6	48.5
E91034	51.5	64.5	62.1	62.0	55.3	36.8
HM9140	47.5	58.3	56.2	64.4	54.2	45.3
HM9143	53.4	61.0	58.1	75.2	51.6	49.5
HM9145	53.4	58.5	62.6	75.2	55.2	49.1
HS90-3464	50.5	56.4	51.2	70.4	59.5	59.2
HS90-3465	49.6	60.7	54.5	64.9	57.3	43.1
HS90-3470	49.9	60.3	57.8	69.9	53.5	48.2
HS90-3473	52.3	58.9	57.5	68.0	57.7	54.9
HS90-3474	49.4	62.2	49.0	63.4	57.7	46.9
HS90-3475	48.1	51.9	41.4	73.3	54.8	51.2
HS90-3483	51.3	58.1	61.5	66.3	55.7	47.0
HS90-37100	50.3	61.9	55.6	69.1	50.2	39.2
LL87-175	44.2	54.3	47.0	56.5	46.0	30.1
LL88-35	44.9	50.0	53.8	58.0	49.3	33.8
LL88-36	42.5	50.9	48.2	60.7	48.0	32.0
LL89-347	43.7	53.0	40.2	59.2	48.4	34.9
C.V. (%)		5.4	9.0	6.6	7.4	10.0
L.S.D. (5%)		6.5	10.0	8.9	8.3	8.7
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIA, 1992

YIELD (bu/a)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville* OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	65.2	56.9	38.6	51.4	57.3	47.1	36.1
IA2008 (BSR)	64.2	57.8	39.9	47.7	58.2	41.4	39.7
Kenwood (II)	63.3	54.2	31.9	39.0	52.2	43.5	38.0
Sturdy (I)	58.8	43.1	35.6	39.2	50.4	43.9	40.0
A91-501003	60.2	42.5	34.0	43.3	47.8	41.9	35.9
A91-501006	55.1	51.9	37.0	41.9	54.0	44.2	30.3
A91-501023	61.4	49.1	33.0	49.1	56.7	44.5	40.5
A91-501031	64.2	59.9	38.1	46.0	61.6	44.4	26.0
A91-501055	64.8	50.0	42.8	31.4	54.5	40.6	30.0
A91-607014	63.4	48.7	37.0	39.5	47.6	40.4	37.2
A91-607023	60.0	49.7	40.6	23.5	59.2	46.4	33.6
A91-607024	68.2	52.5	45.6	19.0	55.2	52.1	30.6
A91-607032	65.7	54.3	41.6	53.0	54.1	45.8	28.6
A91-607037	57.9	48.4	45.8	34.4	55.7	45.3	34.9
A91-607041	63.1	53.1	33.4	32.8	56.2	40.4	32.0
A91-607052	63.8	55.8	42.7	50.9	63.0	46.2	32.1
A91-607053	65.9	52.8	43.4	41.5	56.5	51.2	37.8
A91-701007	65.9	50.9	44.6	60.1	54.5	44.7	32.2
A91-703019	51.9	46.6	39.8	43.8	46.3	41.9	28.4
C1861	59.6	38.1	40.5	48.3	46.8	37.2	23.9
E91024	59.8	44.8	42.3	35.3	65.3	42.0	29.7
E91031	66.4	52.1	41.8	50.4	54.1	51.0	44.8
E91034	63.0	47.3	46.0	35.6	52.2	39.1	38.6
HM9140	57.5	49.2	36.4	49.0	41.8	35.0	23.7
HM9143	59.5	54.5	42.4	40.0	53.2	43.5	38.8
HM9145	58.2	52.2	40.6	47.4	51.2	48.7	35.5
HS90-3464	49.3	44.3	44.3	51.0	52.2	40.9	27.5
HS90-3465	56.0	47.8	47.0	44.3	51.7	40.5	22.5
HS90-3470	52.1	47.8	51.6	55.8	46.7	40.4	20.2
HS90-3473	60.4	51.5	48.2	50.5	49.7	41.1	26.9
HS90-3474	58.5	49.1	43.6	57.2	49.1	41.8	22.5
HS90-3475	54.7	43.1	44.3	49.4	50.2	42.6	21.8
HS90-3483	64.0	45.6	46.7	59.4	48.5	48.7	21.7
HS90-37100	60.1	53.1	40.3	42.9	47.3	41.4	35.3
LL87-175	52.5	43.3	39.9	43.2	55.7	38.3	22.2
LL88-35	57.8	41.6	29.6	38.4	46.5	41.7	31.7
LL88-36	50.7	40.5	31.8	38.4	41.5	39.1	23.8
LL89-347	53.1	44.2	33.0	37.4	50.2	38.0	26.2
C.V. (%)	7.9	5.6	11.6	19.7	6.3	8.5	14.7
L.S.D. (5%)	9.5	5.6	9.6	16.7	6.7	7.5	9.3
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

* Data Not Included in the Mean

PRELIMINARY TEST IIA, 1992

YIELD RANK

Strain	Yield Rank	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	5	3	19	15	7	22
IA2008 (BSR)	8	6	24	24	32	3
Kenwood (II)	16	8	15	30	10	19
Sturdy (I)	26	24	25	35	4	23
A91-501003	26	26	7	28	27	8
A91-501006	24	32	21	12	37	13
A91-501023	19	10	30	17	19	27
A91-501031	12	22	19	14	22	17
A91-501055	7	2	2	4	8	21
A91-607014	29	7	13	24	28	34
A91-607023	14	9	22	20	21	10
A91-607024	2	16	1	7	2	25
A91-607032	5	18	27	8	1	6
A91-607037	13	15	6	11	14	24
A91-607041	20	12	15	30	5	28
A91-607052	11	17	10	26	15	29
A91-607053	4	23	11	18	24	13
A91-701007	2	5	3	6	3	4
A91-703019	33	25	32	34	33	38
C1861	35	37	35	27	26	37
E91024	21	13	18	22	29	31
E91031	1	1	9	3	8	10
E91034	17	4	5	32	17	30
HM9140	32	29	22	23	23	18
HM9143	9	19	12	1	29	7
HM9145	9	28	4	1	18	9
HS90-3464	21	31	31	9	6	1
HS90-3465	28	20	28	21	13	19
HS90-3470	24	21	14	10	25	12
HS90-3473	15	26	17	15	11	2
HS90-3474	30	10	33	28	11	16
HS90-3475	31	35	37	5	20	5
HS90-3483	18	30	8	19	16	13
HS90-37100	23	14	26	12	31	25
LL87-175	36	33	36	38	38	36
LL88-35	34	38	29	37	34	33
LL88-36	38	36	34	33	36	35
LL89-347	37	34	38	36	35	32

PRELIMINARY TEST IIA, 1992

YIELD RANK

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	6	3	26	6	6	6	10
IA2008 (BSR)	8	2	23	15	5	25	4
Kenwood (II)	13	7	36	28	19	17	7
Sturdy (I)	24	33	31	27	24	15	3
A91-501003	18	35	32	20	30	20	11
A91-501006	31	14	28	23	17	14	21
A91-501023	16	20	34	12	7	12	2
A91-501031	8	1	27	17	3	13	29
A91-501055	7	17	13	36	13	28	22
A91-607014	12	22	28	26	31	31	9
A91-607023	20	18	19	37	4	7	15
A91-607024	1	11	7	38	12	1	20
A91-607032	5	6	18	5	15	9	24
A91-607037	27	23	6	34	10	10	14
A91-607041	14	8	33	35	9	31	18
A91-607052	11	4	14	8	2	8	17
A91-607053	3	10	12	24	8	2	8
A91-701007	3	16	8	1	13	11	16
A91-703019	36	27	25	19	36	20	25
C1861	22	38	21	14	33	37	30
E91024	21	29	16	33	1	19	23
E91031	2	13	17	10	15	3	1
E91034	15	26	5	32	19	33	6
HM9140	29	19	30	13	37	38	32
HM9143	23	5	15	25	18	16	5
HM9145	26	12	19	16	23	4	12
HS90-3464	38	30	9	7	19	27	26
HS90-3465	30	24	3	18	22	29	33
HS90-3470	35	24	1	4	34	30	38
HS90-3473	17	15	2	9	27	26	27
HS90-3474	25	20	11	3	28	22	33
HS90-3475	32	33	9	11	25	18	36
HS90-3483	10	28	4	2	29	4	37
HS90-37100	19	8	22	22	32	24	13
LL87-175	34	32	23	21	10	35	35
LL88-35	28	36	38	29	35	23	19
LL88-36	37	37	37	29	38	33	31
LL89-347	33	31	34	31	25	36	28

PRELIMINARY TEST IIA, 1992

MATURITY (date)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	5.9	8		8	7	7
IA2008 (BSR)	1.1	0		-2	0	7
Kenwood (II)	09/21	09/18		09/08	09/11	09/26
Sturdy (I)	-0.3	-4		-4	-2	0
A91-501003	-0.9	-5		0	-1	0
A91-501006	-1.4	-4		-2	-3	1
A91-501023	-2.0	-2		1	-1	-2
A91-501031	0.9	0		1	0	1
A91-501055	-0.5	-3		1	-1	-2
A91-607014	2.0	4		2	2	-1
A91-607023	-1.2	0		1	-1	-2
A91-607024	5.7	9		5	6	7
A91-607032	3.7	2		4	4	7
A91-607037	1.1	0		0	-1	-1
A91-607041	0.2	1		-1	1	-2
A91-607052	-1.7	-2		1	-1	-4
A91-607053	0.8	0		3	3	-2
A91-701007	8.4	8		7	6	10
A91-703019	4.0	2		5	5	3
C1861	7.9	10		9	7	5
E91024	6.0	6		6	7	8
E91031	1.1	-2		3	2	0
E91034	2.9	3		2	3	4
HM9140	0.1	-2		1	0	1
HM9143	3.2	2		5	3	6
HM9145	3.5	4		5	3	7
HS90-3464	5.8	4		8	7	8
HS90-3465	7.5	8		11	8	7
HS90-3470	9.7	12		12	9	13
HS90-3473	6.9	6		10	8	10
HS90-3474	5.9	4		7	8	7
HS90-3475	10.1	12		13	10	13
HS90-3483	8.8	10		11	9	10
HS90-37100	4.9	6		9	4	5
LL87-175	2.4	-2		2	2	-1
LL88-35	1.2	0		4	3	2
LL88-36	2.5	4		5	3	4
LL89-347	1.4	-2		3	2	-1
Date Planted	05/16	05/07		05/07	05/08	05/15
Days to Mature	128.7	134		124	126	134

PRELIMINARY TEST IIA, 1992

MATURITY (date)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	4	6	2	4	5	9	5
IA2008 (BSR)	0	0	-1	-1	2	1	6
Kenwood (II)	09/19	09/29	09/20	09/16	09/30	09/21	10/12
Sturdy (I)	1	2	-1	-1	2	4	0
A91-501003	0	-5	-2	-1	-2	6	0
A91-501006	-3	-5	-4	-1	-2	5	3
A91-501023	-2	-4	-4	-1	-2	-2	-3
A91-501031	0	0	-2	1	2	7	0
A91-501055	-1	-2	-2	-1	-1	6	0
A91-607014	2	2	-4	1	3	7	4
A91-607023	-1	-1	-3	-1	-2	1	-4
A91-607024	3	6	1	3	6	9	8
A91-607032	3	2	2	2	4	5	6
A91-607037	3	1	0	0	1	7	2
A91-607041	-1	-4	-2	-1	0	7	4
A91-607052	1	-7	0	0	-2	-3	-2
A91-607053	1	-3	2	2	0	4	-1
A91-701007	7	6	6	9	7	18	8
A91-703019	4	4	0	2	5	7	7
C1861	7	7	4	3	8	19	8
E91024	5	7	4	2	6	10	5
E91031	1	1	0	1	2	0	4
E91034	4	2	0	1	2	7	4
HM9140	-1	-5	-2	-1	2	8	0
HM9143	0	0	1	2	3	9	4
HM9145	3	1	1	1	4	5	4
HS90-3464	4	3	4	4	4	10	8
HS90-3465	6	7	3	9	6	9	8
HS90-3470	7	7	5	7	8	19	8
HS90-3473	7	4	2	7	7	9	6
HS90-3474	6	6	4	8	4	7	4
HS90-3475	10	8	6	12	8	11	8
HS90-3483	8	7	4	8	10	11	9
HS90-37100	6	2	1	8	4	9	0
LL87-175	2	1	0	1	4	9	8
LL88-35	1	0	-2	-1	2	3	1
LL88-36	1	2	1	-1	4	4	0
LL89-347	0	-1	-2	-1	3	10	4
Date Planted	05/09	05/21	06/10	05/15	05/22	05/05	05/27
Days to Mature	133	131	102	124	131	139	138

PRELIMINARY TEST IIA, 1992

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	2.1	1.9	3.3	2.0	1.3	3.0
IA2008 (BSR)	2.8	2.8	3.1	4.0	2.3	3.0
Kenwood (II)	2.1	1.8	1.9	2.5	2.0	3.0
Sturdy (I)	2.3	2.3	2.5	4.0	2.0	3.0
A91-501003	1.6	1.4	1.5	1.5	1.0	2.5
A91-501006	1.2	1.1	1.2	1.0	1.0	1.0
A91-501023	2.6	2.3	2.5	3.0	2.5	4.0
A91-501031	2.2	2.3	2.4	2.0	2.0	3.0
A91-501055	1.7	1.4	1.5	1.0	1.0	3.0
A91-607014	1.8	1.2	1.6	1.5	1.3	2.5
A91-607023	1.9	1.4	1.9	2.0	1.3	3.0
A91-607024	1.9	1.5	1.8	2.0	1.5	2.5
A91-607032	1.7	1.3	1.6	1.0	1.0	2.0
A91-607037	1.7	1.5	1.4	2.0	1.0	2.5
A91-607041	1.8	1.4	1.5	1.0	1.3	3.0
A91-607052	1.8	1.4	1.4	1.5	1.0	3.5
A91-607053	1.6	1.1	1.3	1.0	1.0	2.5
A91-701007	1.9	1.4	1.9	1.5	1.5	2.0
A91-703019	2.0	1.5	1.6	2.0	1.5	3.0
C1861	2.0	1.4	1.6	2.0	1.3	3.0
E91024	2.3	1.6	3.3	2.5	2.3	3.5
E91031	1.7	1.2	1.8	2.0	1.0	2.5
E91034	2.4	1.9	2.3	4.0	2.3	3.0
HM9140	1.6	1.1	1.5	1.0	1.0	2.5
HM9143	1.8	1.3	1.7	1.5	1.0	2.0
HM9145	1.9	1.3	1.6	2.0	1.0	3.0
HS90-3464	1.8	1.5	1.8	2.0	1.5	2.5
HS90-3465	2.2	1.8	1.9	3.0	2.0	3.0
HS90-3470	2.2	1.5	1.9	3.0	1.8	2.0
HS90-3473	2.3	1.7	2.5	3.5	1.8	2.0
HS90-3474	2.8	2.5	3.5	3.5	2.3	3.0
HS90-3475	2.3	1.8	2.6	2.5	2.3	3.0
HS90-3483	2.1	1.5	2.1	3.0	1.5	3.0
HS90-37100	2.3	1.7	2.3	2.5	2.5	3.0
LL87-175	1.5	1.1	1.3	1.0	1.0	2.5
LL88-35	1.6	1.2	1.3	1.0	1.0	2.5
LL88-36	1.4	1.2	1.4	1.0	1.0	2.5
LL89-347	1.5	1.2	1.3	1.0	1.0	2.5

PRELIMINARY TEST IIA, 1992

LODGING (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.0	1.5	1.5	1.2	1.0	3.5	4.0
IA2008 (BSR)	2.0	2.0	3.0	1.9	2.0	3.0	4.0
Kenwood (II)	1.0	1.5	3.0	1.2	1.8	2.5	3.5
Sturdy (I)	2.0	2.0	1.5	1.1	1.6	2.5	3.0
A91-501003	1.0	1.0	1.5	1.3	1.0	2.5	3.0
A91-501006	1.0	1.0	1.0	1.0	1.0	1.0	2.5
A91-501023	1.0	1.0	4.0	1.8	2.0	2.5	4.0
A91-501031	1.0	1.5	3.0	1.3	2.0	3.0	3.0
A91-501055	1.0	1.0	2.0	1.4	1.9	2.0	3.5
A91-607014	1.0	2.0	1.5	1.2	1.7	2.5	3.5
A91-607023	1.0	1.0	2.5	1.2	1.6	3.0	3.0
A91-607024	1.0	2.0	2.0	1.2	1.0	2.5	4.0
A91-607032	1.0	1.5	2.0	1.3	1.7	2.0	3.5
A91-607037	1.0	1.0	1.5	1.2	1.7	2.5	3.0
A91-607041	1.0	1.0	2.5	1.3	2.7	2.5	2.5
A91-607052	1.0	1.0	2.0	1.4	2.0	2.0	3.0
A91-607053	1.0	1.0	1.0	1.2	2.4	2.0	4.0
A91-701007	1.0	2.0	1.5	1.6	1.8	3.0	3.0
A91-703019	1.0	1.5	1.5	1.4	1.8	3.0	4.0
C1861	1.0	3.0	2.0	1.6	1.0	2.5	4.0
E91024	2.0	2.5	1.0	1.2	1.6	3.5	3.0
E91031	1.0	1.0	1.5	1.2	1.0	2.5	3.5
E91034	1.0	1.5	2.0	1.4	2.3	2.5	4.0
HM9140	1.0	1.0	1.5	1.4	1.9	2.0	3.5
HM9143	1.0	1.5	2.0	1.2	1.9	2.0	4.0
HM9145	1.0	1.5	2.0	1.3	1.0	3.5	4.0
HS90-3464	1.0	1.5	1.5	1.3	1.4	2.5	3.5
HS90-3465	1.0	2.5	2.0	1.4	1.5	2.5	4.0
HS90-3470	1.0	2.0	2.0	1.8	1.9	3.0	4.0
HS90-3473	1.5	2.0	2.5	1.7	1.9	2.5	3.5
HS90-3474	3.0	2.5	2.5	1.5	1.0	4.0	4.0
HS90-3475	1.0	2.5	2.0	1.7	2.0	2.5	4.0
HS90-3483	1.0	3.0	1.0	1.7	1.0	3.0	3.5
HS90-37100	1.0	2.0	3.0	1.5	1.7	2.5	3.5
LL87-175	1.0	1.0	2.0	1.2	1.4	2.0	2.5
LL88-35	1.0	2.0	1.0	1.1	1.0	2.5	3.5
LL88-36	1.0	1.0	1.0	1.2	1.0	2.0	3.0
LL89-347	1.0	1.0	1.0	1.2	1.8	2.0	3.5

PRELIMINARY TEST IIA, 1992

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	36	36	40	37	42	42
IA2008 (BSR)	36	38	43	37	37	40
Kenwood (II)	36	42	46	39	41	40
Sturdy (I)	35	36	41	37	37	36
A91-501003	35	38	41	39	35	40
A91-501006	32	35	38	36	33	35
A91-501023	33	36	40	33	34	35
A91-501031	35	45	40	37	38	37
A91-501055	33	38	42	35	34	34
A91-607014	32	36	40	35	34	36
A91-607023	35	39	42	39	39	39
A91-607024	38	42	46	41	42	40
A91-607032	33	38	41	35	35	36
A91-607037	34	38	41	38	38	35
A91-607041	32	36	38	36	36	34
A91-607052	31	36	36	33	32	32
A91-607053	32	34	39	37	37	29
A91-701007	38	42	44	43	42	37
A91-703019	38	40	46	41	40	38
C1861	38	42	44	43	41	38
E91024	35	40	42	38	41	41
E91031	35	38	45	37	39	38
E91034	34	38	38	36	36	40
HM9140	31	36	38	35	37	32
HM9143	34	40	42	36	37	37
HM9145	34	38	42	38	37	34
HS90-3464	36	41	44	40	43	39
HS90-3465	37	42	46	40	41	41
HS90-3470	36	40	43	41	41	38
HS90-3473	36	41	46	41	40	39
HS90-3474	36	40	42	38	43	39
HS90-3475	38	42	42	42	44	45
HS90-3483	35	40	40	38	39	37
HS90-37100	38	43	49	37	45	42
LL87-175	36	38	45	41	38	38
LL88-35	29	33	36	33	31	28
LL88-36	31	34	37	36	32	34
LL89-347	33	38	42	37	35	40

PRELIMINARY TEST IIA, 1992

PLANT HEIGHT (inches)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	36	37	29	29	33	36	29
IA2008 (BSR)	36	43	29	30	36	32	29
Kenwood (II)	37	39	28	25	36	36	26
Sturdy (I)	36	39	30	24	35	34	31
A91-501003	36	40	28	30	34	33	29
A91-501006	34	35	28	25	31	32	27
A91-501023	34	34	26	26	35	33	25
A91-501031	36	37	30	27	35	31	27
A91-501055	31	35	27	23	33	33	26
A91-607014	29	33	28	22	31	32	25
A91-607023	35	36	30	22	32	36	30
A91-607024	39	41	31	24	40	38	31
A91-607032	33	35	26	25	33	31	25
A91-607037	35	37	26	25	32	35	31
A91-607041	33	35	26	22	31	32	30
A91-607052	31	32	25	25	29	30	26
A91-607053	33	30	26	25	30	30	28
A91-701007	38	42	31	33	36	36	30
A91-703019	40	40	32	30	40	36	29
C1861	39	40	25	31	38	37	33
E91024	34	39	29	21	35	31	30
E91031	35	36	26	29	33	33	30
E91034	36	36	26	23	32	30	33
HM9140	30	31	24	28	30	27	28
HM9143	36	36	27	27	32	31	28
HM9145	35	36	28	30	32	33	28
HS90-3464	35	39	29	30	32	32	25
HS90-3465	39	37	30	30	35	34	28
HS90-3470	33	37	30	31	33	31	28
HS90-3473	37	36	30	30	35	35	27
HS90-3474	36	34	30	32	34	33	27
HS90-3475	36	41	32	31	38	36	32
HS90-3483	35	36	30	30	36	32	30
HS90-37100	37	40	33	30	36	31	29
LL87-175	36	35	33	27	35	33	27
LL88-35	29	31	21	22	30	29	27
LL88-36	32	31	23	23	30	30	24
LL89-347	32	35	28	23	32	30	29

PRELIMINARY TEST IIA, 1992

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	1.7	1.5	2.1	1.2	1.0	
IA2008 (BSR)	1.9	1.7	2.0	1.2	1.0	
Kenwood (II)	1.7	1.3	1.6	1.4	1.0	
Sturdy (I)	2.0	2.2	2.5	1.4	1.5	
A91-501003	2.0	2.1	2.3	2.0	1.0	
A91-501006	1.8	1.2	1.8	1.2	1.0	
A91-501023	1.7	1.5	2.3	1.2	1.0	
A91-501031	2.0	2.8	2.7	1.4	1.0	
A91-501055	1.7	2.1	1.8	1.2	1.0	
A91-607014	1.7	2.0	2.2	1.2	1.0	
A91-607023	1.8	1.4	2.1	1.2	1.0	
A91-607024	1.7	1.8	2.0	1.2	1.0	
A91-607032	1.7	1.6	1.8	1.2	1.0	
A91-607037	2.0	1.9	2.1	1.4	1.0	
A91-607041	1.6	1.3	1.5	1.2	1.0	
A91-607052	1.7	2.3	2.2	1.2	1.5	
A91-607053	1.7	2.5	1.6	1.2	1.0	
A91-701007	1.6	1.6	2.1	1.2	1.0	
A91-703019	2.0	2.6	2.9	1.2	1.0	
C1861	1.9	2.1	3.2	1.2	1.0	
E91024	2.1	1.7	2.6	1.2	1.0	
E91031	1.8	1.9	2.3	1.2	1.0	
E91034	1.9	1.6	2.3	1.2	1.0	
HM9140	1.6	2.0	2.1	1.2	1.0	
HM9143	1.7	1.8	2.0	1.2	1.0	
HM9145	1.7	1.4	1.7	1.4	1.0	
HS90-3464	1.7	2.2	2.0	1.2	1.0	
HS90-3465	1.8	1.8	2.7	1.2	1.0	
HS90-3470	1.8	1.9	1.7	1.2	1.0	
HS90-3473	1.6	1.7	1.8	1.2	1.0	
HS90-3474	1.6	1.7	2.0	1.2	1.0	
HS90-3475	1.7	2.0	2.1	1.2	1.5	
HS90-3483	1.8	2.4	2.3	1.2	1.0	
HS90-37100	1.7	2.0	2.4	1.2	1.5	
LL87-175	1.6	1.4	1.8	1.2	1.0	
LL88-35	1.7	1.6	1.4	1.2	1.0	
LL88-36	1.6	1.6	1.7	1.2	1.0	
LL89-347	1.6	1.2	2.0	1.2	1.0	

PRELIMINARY TEST IIA, 1992

SEED QUALITY (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.5	2.0	1.5	2.0	1.0	3.0	2.0
IA2008 (BSR)	1.5	2.0	1.5	1.8	3.0	3.5	2.0
Kenwood (II)	1.5	1.5	1.5	1.8	1.1	3.5	2.0
Sturdy (I)	1.5	1.5	1.5	2.5	1.1	4.0	2.0
A91-501003	2.0	1.5	2.0	2.0	2.1	3.5	2.0
A91-501006	1.5	2.5	1.5	1.9	1.5	4.0	2.0
A91-501023	1.5	1.5	1.5	2.4	1.0	3.0	2.0
A91-501031	1.5	2.5	1.5	1.8	1.0	4.0	2.0
A91-501055	1.5	2.0	1.0	1.3	1.5	3.5	2.0
A91-607014	1.5	2.5	1.0	1.5	1.0	3.0	2.0
A91-607023	2.5	2.0	1.5	2.0	1.0	3.5	2.0
A91-607024	2.0	2.0	1.5	1.7	1.0	3.0	2.0
A91-607032	2.0	1.5	1.5	1.6	1.1	3.0	2.0
A91-607037	2.0	1.5	1.5	1.9	2.0	4.0	3.0
A91-607041	2.0	1.5	2.0	1.4	1.1	3.0	2.0
A91-607052	1.5	1.5	1.5	1.4	1.1	2.5	2.0
A91-607053	1.5	1.0	1.0	1.3	2.1	4.0	2.0
A91-701007	1.5	1.0	1.0	1.5	1.1	4.0	2.0
A91-703019	1.5	2.5	2.0	1.7	1.0	4.0	2.0
C1861	1.5	2.0	1.5	2.0	1.0	2.5	3.0
E91024	1.5	3.0	2.0	2.1	1.0	4.5	2.0
E91031	1.5	2.5	1.0	1.7	1.5	3.0	2.0
E91034	1.0	2.5	1.5	2.8	1.0	4.0	2.0
HM9140	1.5	1.0	1.0	1.2	1.4	3.5	2.0
HM9143	1.5	2.0	1.5	1.3	1.0	3.0	2.0
HM9145	1.5	2.0	1.5	1.2	1.0	3.5	2.0
HS90-3464	1.5	1.5	1.0	1.1	1.0	3.0	3.0
HS90-3465	2.0	2.0	1.0	1.3	1.0	2.5	3.0
HS90-3470	1.5	1.5	1.5	1.5	1.0	3.5	3.0
HS90-3473	1.5	1.5	1.0	1.2	1.0	3.0	3.0
HS90-3474	1.5	2.0	1.5	1.2	1.0	2.5	2.0
HS90-3475	1.5	2.0	1.0	1.5	1.0	3.0	2.0
HS90-3483	1.5	2.0	1.0	1.6	1.0	3.0	3.0
HS90-37100	1.5	2.0	1.0	1.4	1.0	3.0	2.0
LL87-175	1.5	2.0	1.5	1.2	1.1	3.0	2.0
LL88-35	1.5	2.0	1.5	2.2	1.0	3.0	2.0
LL88-36	1.5	2.5	1.0	2.0	1.1	2.5	2.0
LL89-347	1.5	2.0	1.5	1.8	1.0	2.0	2.0

PRELIMINARY TEST IIA, 1992

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	18.7	19.0	17.2	17.4	17.2	20.2
IA2008 (BSR)	14.7	13.6	14.8	14.1	14.1	16.4
Kenwood (II)	16.8	17.0	16.4	15.8	14.6	18.6
Sturdy (I)	18.9	19.1	17.7	17.7	17.9	18.7
A91-501003	18.2	18.8	18.8	18.5	18.1	18.7
A91-501006	18.3	18.1	17.5	19.3	16.6	19.3
A91-501023	18.9	19.0	17.8	20.4	17.9	18.8
A91-501031	18.5	19.0	17.7	19.1	16.2	20.0
A91-501055	19.9	21.6	20.4	20.9	18.3	20.0
A91-607014	18.2	17.8	19.0	17.9	16.6	17.6
A91-607023	17.5	17.8	17.6	16.1	15.3	19.6
A91-607024	15.9	15.8	15.8	16.5	14.4	16.3
A91-607032	16.2	16.6	16.3	16.5	14.6	18.7
A91-607037	19.3	19.3	19.6	19.1	18.4	19.2
A91-607041	19.9	19.3	20.1	18.5	19.4	21.2
A91-607052	19.1	18.8	19.0	18.6	17.8	18.3
A91-607053	18.7	17.6	18.8	18.6	16.6	18.9
A91-701007	17.1	16.8	17.8	16.3	15.1	19.4
A91-703019	18.2	18.8	18.4	17.4	15.8	18.1
C1861	18.2	18.7	17.4	18.7	16.6	17.9
E91024	16.6	15.8	16.2	15.0	15.3	18.2
E91031	16.9	18.6	16.9	17.0	14.8	16.9
E91034	17.0	17.2	16.2	15.7	15.3	17.8
HM9140	17.7	17.9	17.7	18.0	17.4	20.0
HM9143	16.8	17.0	17.0	17.5	15.1	18.0
HM9145	16.4	16.4	17.0	15.9	14.6	18.2
HS90-3464	20.1	19.5	19.8	19.8	18.5	22.6
HS90-3465	17.5	17.1	16.8	17.5	15.6	18.6
HS90-3470	18.8	17.3	19.2	19.0	18.3	20.8
HS90-3473	18.7	18.1	18.6	18.3	17.9	20.8
HS90-3474	18.8	18.2	18.2	17.7	17.1	20.7
HS90-3475	19.4	18.6	18.2	18.8	18.6	21.6
HS90-3483	17.8	18.2	16.8	17.2	15.9	19.0
HS90-37100	16.5	16.8	16.4	16.7	16.4	16.9
LL87-175	19.9	20.2	19.1	20.4	20.1	17.6
LL88-35	13.6	13.2	13.2	13.7	12.4	13.6
LL88-36	13.6	13.7	13.4	14.1	12.6	14.6
LL89-347	19.9	20.0	19.5	22.1	20.3	17.2

PRELIMINARY TEST IIA, 1992

SEED SIZE (g\100)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	20.5	21.1	19.5	18.2		18.5	16.7
IA2008 (BSR)	16.0	17.7	14.0	13.3		13.5	13.9
Kenwood (II)	18.4	20.1	15.5	15.0		16.0	17.1
Sturdy (I)	20.8	21.7	18.5	19.4		18.5	18.2
A91-501003	18.3	20.1	17.0	18.1		17.0	17.2
A91-501006	20.3	20.7	17.5	16.3		18.5	16.9
A91-501023	19.7	21.7	18.5	18.3		18.0	17.5
A91-501031	18.9	21.1	18.0	18.8		17.5	17.1
A91-501055	20.8	21.7	19.5	18.6		19.0	18.2
A91-607014	19.5	20.4	18.5	15.3		21.0	16.1
A91-607023	18.9	20.8	15.5	16.6		18.0	16.3
A91-607024	17.5	18.4	15.5	14.1		15.5	15.2
A91-607032	17.9	18.5	14.5	14.1		15.0	15.3
A91-607037	21.3	23.7	19.5	15.2		19.0	18.2
A91-607041	20.6	22.8	18.5	17.8		21.0	19.9
A91-607052	20.2	22.6	19.5	19.2		18.0	18.1
A91-607053	19.7	20.6	19.5	19.8		18.5	16.9
A91-701007	18.5	19.7	16.5	16.0		17.0	15.2
A91-703019	17.9	20.7	17.0	19.8		19.5	17.2
C1861	21.1	19.9	18.0	17.7		18.0	16.1
E91024	18.5	17.6	17.5	16.7		16.0	16.2
E91031	17.6	18.8	15.0	15.7		17.5	16.6
E91034	18.4	19.0	17.0	16.1		16.5	17.6
HM9140	17.7	19.9	17.0	16.4		18.0	15.2
HM9143	18.1	20.5	15.5	14.1		16.5	15.2
HM9145	17.4	19.6	15.5	15.3		16.0	14.5
HS90-3464	21.2	22.6	20.0	18.6		20.0	18.9
HS90-3465	18.8	20.6	17.5	15.9		17.5	16.2
HS90-3470	20.3	20.5	18.0	18.4		17.5	17.9
HS90-3473	20.8	20.9	18.5	18.1		18.0	16.0
HS90-3474	20.7	22.1	18.5	18.5		19.0	16.6
HS90-3475	21.5	21.4	19.0	19.9		19.0	16.7
HS90-3483	19.2	19.8	17.6	17.7		17.5	16.4
HS90-37100	18.0	19.2	14.0	16.4		16.5	13.8
LL87-175	21.2	21.3	21.0	20.0		20.0	17.8
LL88-35	16.0	14.7	13.0	11.7		13.0	15.1
LL88-36	14.0	15.3	12.5	11.9		14.0	13.6
LL89-347	21.4	22.0	21.0	17.7		20.0	18.0

PRELIMINARY TEST IIA, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	39.6	38.6	39.8	40.8	39.2
IA2008 (BSR)	39.3	38.0	39.1	40.5	39.5
Kenwood (II)	40.2	39.0	39.6	41.3	41.0
Sturdy (I)	41.2	41.2	41.7	40.6	41.1
A91-501003	43.2	42.5	43.6	44.8	41.7
A91-501006	40.2	39.5	40.3	41.6	39.5
A91-501023	40.9	40.1	40.7	42.0	40.8
A91-501031	39.7	39.1	39.6	40.7	39.4
A91-501055	39.8	39.3	39.5	39.7	40.5
A91-607014	39.9	39.2	39.1	40.8	40.6
A91-607023	40.2	39.3	40.5	40.8	40.3
A91-607024	41.1	40.4	41.2	41.6	41.0
A91-607032	42.0	41.1	41.7	43.0	42.0
A91-607037	41.1	39.9	41.7	41.5	41.1
A91-607041	40.0	39.3	40.3	40.1	40.3
A91-607052	39.0	39.0	38.2	39.6	39.1
A91-607053	41.6	40.9	41.4	42.7	41.4
A91-701007	41.4	40.3	42.0	42.1	41.2
A91-703019	41.8	40.8	41.8	43.1	41.3
C1861	42.4	42.0	42.6	43.3	41.6
E91024	41.0	40.5	40.5	41.3	41.5
E91031	39.4	39.0	39.1	39.8	39.6
E91034	41.3	40.4	40.8	41.5	42.3
HM9140	39.5	38.9	39.6	40.0	39.6
HM9143	39.3	38.8	39.1	40.6	38.8
HM9145	39.4	37.8	39.2	41.1	39.3
HS90-3464	41.6	40.8	41.4	43.0	41.2
HS90-3465	40.6	40.0	40.9	41.5	40.1
HS90-3470	41.3	40.3	41.4	41.8	41.6
HS90-3473	41.5	40.1	42.3	42.5	41.0
HS90-3474	40.9	39.2	41.2	42.0	41.1
HS90-3475	41.2	40.0	41.6	42.0	41.2
HS90-3483	38.5	37.3	39.6	39.5	37.7
HS90-37100	40.3	39.3	40.5	41.5	39.7
LL87-175	41.3	41.2	41.2	42.3	40.6
LL88-35	42.6	42.7	42.3	44.6	40.9
LL88-36	42.2		42.1	43.6	41.0
LL89-347	40.1	39.7	40.3	40.9	39.4

PRELIMINARY TEST IIA, 1992

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	20.6	20.5	21.0	20.2	20.6
IA2008 (BSR)	20.0	19.8	20.9	20.0	19.2
Kenwood (II)	20.1	20.4	21.3	19.8	18.9
Sturdy (I)	19.9	19.6	20.4	20.4	19.3
A91-501003	18.6	18.6	19.3	18.1	18.4
A91-501006	19.5	19.4	20.5	19.3	18.9
A91-501023	19.7	19.7	20.7	19.1	19.1
A91-501031	20.7	20.6	21.9	20.7	19.7
A91-501055	20.3	20.2	21.3	20.9	18.9
A91-607014	20.3	20.1	21.7	20.0	19.2
A91-607023	20.1	20.3	20.6	19.7	19.9
A91-607024	19.5	19.1	20.6	19.4	18.9
A91-607032	19.4	19.1	20.5	19.1	19.0
A91-607037	20.3	20.2	21.1	20.1	19.6
A91-607041	20.5	19.9	21.7	20.6	19.6
A91-607052	21.4	20.6	22.4	21.6	20.8
A91-607053	19.5	18.9	20.8	19.0	19.4
A91-701007	19.3	19.5	19.7	18.8	19.2
A91-703019	19.4	19.9	20.4	18.7	18.5
C1861	19.0	18.4	20.2	19.0	18.2
E91024	19.1	18.6	20.4	18.9	18.6
E91031	20.2	20.0	21.2	20.3	19.2
E91034	20.1	19.9	21.4	20.3	18.6
HM9140	21.1	21.2	21.8	21.0	20.2
HM9143	20.1	19.8	21.1	19.7	19.9
HM9145	20.1	19.8	21.5	19.4	19.5
HS90-3464	20.2	20.4	21.2	19.5	19.8
HS90-3465	19.6	19.5	20.4	19.6	18.8
HS90-3470	19.8	19.4	20.6	20.1	19.1
HS90-3473	19.8	19.7	20.4	19.3	19.7
HS90-3474	19.9	20.6	20.7	19.5	18.8
HS90-3475	20.1	20.3	20.5	20.0	19.4
HS90-3483	20.1	19.9	21.0	20.0	19.6
HS90-37100	19.6	19.6	21.0	19.0	18.7
LL87-175	20.0	19.6	20.7	20.1	19.4
LL88-35	17.9	17.2	18.8	17.1	18.5
LL88-36	17.5		18.5	17.2	16.7
LL89-347	20.7	19.9	22.2	20.8	20.0

PRELIMINARY TEST IIB, 1992

Strain	Parentage	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	F5	
Kenwood (II)	Elgin x Asgrow A1937	F5	
Sturdy (I)	M70-127 x Century	F5	
LN88-7837	A82-267015 x BSR 101	F5	Rps1-a
LN88-10954	A83-271027 x Chamberlain	F5	Rps1-a
LN88-11039	A83-271027 x LN80-10508	F5	Rps1-a
LN88-11190	A83-271027 x Asgrow A2943	F5	Rps1-a
LN89-143	Sherman x Resnik	F5	Rps1-k
LN89-704	Sherman x Harper 87	F5	Rps1-k
LN89-705	Sherman x Harper 87	F5	Rps1-k
LN89-764	Sherman x Harper 87	F5	
LN89-4732	Northrup King S27-[illegible]0 x Asgrow A3205	F5	
LN89-4752	Northrup King S27-[illegible]0 x Asgrow A3205	F5	Rps1-c
LN89-4854	Northrup King S27-[illegible]0 x Asgrow A3205	F5	
LN89-5079	Northrup King S27-[illegible]0 x Pioneer P9292	F5	Rps1-c
ORC 9108	Hack x Asgrow A3127	F5	
U91-2104	Northrup King S1346 x Asgrow A3427	F4	
U91-2202	Agserv 8780 x Kenwood	F4	
U91-2305	Sturdy x Kenwood	F4	
U91-2316	Kenwood x HC84-553-1	F4	
U91-2408	A86-204022 x Asgrow A3427	F4	
U91-2510	Kenwood x Bass	F4	
U91-2514	Northrup King S1346 x Kenwood	F4	
U91-2515	Agserv 8780 x A86-204022	F4	
U91-2519	A86-204022 x HC84-553-1	F4	
U91-2527	Sturdy x A86-204022	F4	
U91-2529	Agserv 8780 x Sturdy	F4	
U91-2710	Agserv 8780 x A86-204022	F4	
U91-2721	Agserv 8780 x Northrup King S23-03	F4	
U91-2722	Northrup King S23-03 x A86-204022	F4	
U91-2731	Agserv 8780 x Northrup King S1346	F4	
Hoyt (dtl)	Harcor x Elf	F4	dtl
HC85-1248	HC78-676 x Hobbit	F5	dtl
HC88-192	HC80-1946 x Sprite 87	F5	dtl
HC88-557	HC80-585 x Pixie	F5	dtl
HC88-1021	Sprite 87 x HC74-634RE	F5	dtl
HC88-1022	Sprite 87 x HC74-634RE	F5	dtl
ORC 9110	Pride B152 x Gnome 85	F5	dtl

PRELIMINARY TEST IIB, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Germination Lafayette %	BSR - Boone Plant n %	BSR - Boone Stem n %
IA2007 (L)	PTBDYBrI	86	100	55.9
Kenwood (II)	PTBDYBlI	90	100	62.1
Sturdy (I)	PGBDYIbI	90	100	72.9
LN88-7837	PGBDYBfI	90	60	11.2
LN88-10954	WTBDYBlI	78	80	20.4
LN88-11039	WTTDYBlI	86	90	46.0
LN88-11190	PGBDYIbI	96	100	53.5
LN89-143	P+WTBDYBrI	96	100	69.5
LN89-704	PGBIYBfI	88	100	79.3
LN89-705	PGBDYBfI	96	100	72.2
LN89-764	PGBIYIbI	96	100	75.9
LN89-4732	PGBDYYI	90	100	76.0
LN89-4752	PTBSYYI	96	100	86.4
LN89-4854	PTBSYYI	98	100	94.4
LN89-5079	PTBIYYI	96	100	82.1
ORC9108	WTTSYBlI	100	100	85.1
U91-2104	PGTDYGrI	98	90	38.2
U91-2202	WTBDYBlI	84	70	20.1
U91-2305	PGBDYIbI	96	90	39.2
U91-2316	PTBDYBlI	94	60	26.2
U91-2408	PGB+TSYIbI	94	100	61.2
U91-2510	PTTDYIbI	86	70	38.0
U91-2514	PGBDYYI	88	90	66.2
U91-2515	WGBDYBlI	80	70	33.0
U91-2519	PTTSYBlI	98	100	43.7
U91-2527	PGBDYIbI	82	100	60.5
U91-2529	WTBDYBlI	80	100	62.3
U91-2710	WGBDYBfI	92	100	72.2
U91-2721	P+WGBIYBfI	90	100	69.4
U91-2722	PGBSYIbI	94	100	62.4
U91-2731	PGBDYBfI	96	100	92.5
Hoyt (dtl)	PTTSYBlD	86	100	90.8
HC85-1248	PTBSYBlD	88	100	81.3
HC88-192	PTTSYBlD	90	70	64.2
HC88-557	WTTIYBlD	96	100	38.2
HC88-1021	WTTIYBlD	100	100	94.2
HC88-1022	WTTSYBlD	100	100	72.0
ORC9110	PTTSYYD	94	100	73.7

PRELIMINARY TEST IIB, 1992

DISEASE DATA

Strain	PR				PS	PSB	SMV
	Phyto. Tolerance NW Branch	Urbana Race 1	Ames Race 4	Lafayette Race 7	Lafayette a %	Lafayette n %	a Score
IA2007 (L)	4.1	R	S	R	16	2	3E
Kenwood (II)	5.4	S	S	S	27	2	2M
Sturdy (I)	4.5	R	S	S	28	2	2E
LN88-7837	3.3	R	S	S	6	0	1
LN88-10954	3.5	R	S	S	6	0	2E
LN88-11039	3.6	R	S	S	3	0	1
LN88-11190	3.8	R	S	S	15	0	1
LN89-143	3.5	R	H	R	7	0	1
LN89-704	3.5	R	R	R	11	0	2M
LN89-705	3.4	R	R	R	10	0	1
LN89-764	3.5	H	H	H	1	0	2M
LN89-4732	4.6	S	S	S	6	2	2E
LN89-4752	3.6	R	S	R	9	0	1
LN89-4854	3.6	S	S	S	12	0	1
LN89-5079	3.8	R	S	R	8	0	2E
ORC9108	3.8	S	S	S	9	0	1
U91-2104	4.1	R	S	S	5	0	1
U91-2202	6.4	S	S	S	15	0	3E
U91-2305	4.5	S	S	S	24	0	1
U91-2316	5.8	S	S	S	5	0	2E
U91-2408	5.9	S	S	S	4	0	1
U91-2510	4.0	S	S	S	14	0	1
U91-2514	4.0	S	S	S	11	0	1
U91-2515	5.6	S	S	S	5	2	1
U91-2519	4.3	H	H	S	12	0	1
U91-2527	5.9	H	S	S	12	0	1
U91-2529	4.9	S	S	S	19	0	1
U91-2710	5.8	S	S	S	8	0	1
U91-2721	5.6	S	S	S	2	0	2M
U91-2722	4.0	S	S	S	5	0	2M
U91-2731	6.1	S	S	S	20	0	1
Hoyt (dt1)	4.3	H	S	S	3	0	3E
HC85-1248	4.3	R	S	S	2	0	1
HC88-192	3.6	R	R	S	3	0	3S
HC88-557	4.4	S	S	S	5	0	1
HC88-1021	3.9	R	R	R	4	0	1
HC88-1022	4.4	R	H	H	2	0	1
ORC9110	4.3	R	R	R	8	0	1

PRELIMINARY TEST IIB, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 11 Score	Seed Size 11 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	54.7	2	5.5	2.0	35	1.7	18.3	39.6	20.5
Kenwood (II)	53.1	5	09/22*	2.1	36	1.7	16.9	39.9	20.4
Sturdy (I)	50.7	15	-0.4	2.3	35	1.9	18.8	41.0	19.7
LN88-7837	50.3	17	9.5	2.6	39	2.1	14.9	41.1	19.6
LN88-10954	49.3	26	5.3	1.8	37	1.5	18.8	41.5	19.7
LN88-11039	49.1	27	7.9	2.6	39	1.6	16.5	41.3	19.9
LN88-11190	46.7	37	6.9	1.4	36	1.6	15.8	43.2	19.3
LN89-143	51.1	12	6.0	1.6	34	1.5	18.3	42.2	19.9
LN89-704	49.8	20	9.2	1.4	34	1.7	16.3	41.5	19.3
LN89-705	48.3	31	9.0	1.7	34	1.8	17.1	41.1	19.6
LN89-764	51.8	8	6.9	1.4	32	1.5	16.5	41.0	20.0
LN89-4732	47.3	36	5.2	2.0	33	1.8	16.0	42.2	18.8
LN89-4752	48.3	31	5.6	2.0	35	1.7	15.0	42.6	18.9
LN89-4854	48.1	33	4.0	1.7	33	1.6	15.7	42.8	19.4
LN89-5079	49.8	20	5.5	1.7	34	1.8	16.4	40.6	19.6
ORC9108	54.7	2	4.8	2.2	37	1.7	16.0	40.8	19.8
U91-2104	52.7	6	3.1	1.8	35	1.8	15.8	40.3	21.1
U91-2202	50.9	14	0.5	1.6	34	1.9	19.7	40.5	20.1
U91-2305	49.9	19	2.4	1.8	36	1.9	18.2	40.4	20.4
U91-2316	51.8	8	3.5	1.6	35	1.7	16.4	40.1	20.0
U91-2408	50.6	16	1.5	1.8	36	1.8	17.0	40.8	19.6
U91-2510	48.8	30	1.8	1.6	36	1.6	17.2	41.3	19.3
U91-2514	51.1	12	1.8	1.4	35	1.9	17.7	39.0	21.0
U91-2515	47.6	34	6.1	1.5	35	1.6	17.5	41.5	19.5
U91-2519	54.8	1	5.6	2.0	34	1.6	17.7	39.9	20.7
U91-2527	51.6	10	2.6	2.0	34	1.8	17.7	40.6	20.4
U91-2529	48.9	29	1.9	1.8	35	1.7	18.3	41.6	19.4
U91-2710	49.0	28	4.7	1.8	40	1.6	16.4	41.8	19.3
U91-2721	47.4	35	6.0	2.7	39	2.0	15.5	42.1	19.2
U91-2722	53.3	4	2.9	2.1	36	2.0	15.3	41.8	19.8
U91-2731	49.6	23	4.4	1.6	34	1.7	17.1	40.2	19.7
Hoyt (dtl)	51.5	11	4.5	1.7	26	1.8	14.2	41.2	19.7
HC85-1248	50.3	17	8.0	1.4	25	1.6	15.8	39.2	19.7
HC88-192	49.7	22	11.5	2.0	32	1.7	18.1	40.2	20.0
HC88-557	49.5	25	11.7	1.9	29	1.6	18.1	41.1	18.8
HC88-1021	52.5	7	10.1	2.0	28	1.8	17.7	40.1	20.2
HC88-1022	49.6	23	11.2	1.9	27	1.7	17.7	39.7	20.0
ORC9110	43.5	38	6.5	1.4	24	2.2	18.4	43.0	17.8

* 128.9 Days After Planting

PRELIMINARY TEST IIB, 1992

YIELD (bu/a)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	54.7	63.0	57.8	67.8	56.6	45.1
Kenwood (II)	53.1	66.8	53.2	63.0	56.9	46.1
Sturdy (I)	50.7	62.0	50.3	57.6	48.4	47.3
LN88-7837	50.3	65.0	41.5	70.8	64.0	51.9
LN88-10954	49.3	56.3	49.6	65.9	54.2	45.2
LN88-11039	49.1	56.7	55.6	60.7	61.7	33.9
LN88-11190	46.7	60.5	48.2	57.2	57.1	28.2
LN89-143	51.1	61.8	56.1	68.1	57.7	44.9
LN89-704	49.8	56.9	57.3	71.2	56.5	42.9
LN89-705	48.3	56.6	49.9	66.0	59.2	41.4
LN89-764	51.8	60.5	54.5	71.6	52.9	44.4
LN89-4732	47.3	59.3	44.8	54.1	54.4	37.7
LN89-4752	48.3	58.0	53.8	61.7	52.0	34.3
LN89-4854	48.1	55.9	54.7	62.4	50.3	38.1
LN89-5079	49.8	59.4	55.5	62.8	54.9	40.8
ORC9108	54.7	60.4	63.5	66.6	56.8	47.8
U91-2104	52.7	59.8	61.5	65.1	58.0	48.4
U91-2202	50.9	57.8	57.3	58.7	54.1	50.3
U91-2305	49.9	64.2	64.7	62.4	46.1	35.3
U91-2316	51.8	61.3	50.4	60.6	58.5	52.4
U91-2408	50.6	63.9	55.3	64.7	56.9	39.4
U91-2510	48.8	54.7	54.8	62.8	53.1	42.8
U91-2514	51.1	63.6	58.5	61.4	49.4	49.3
U91-2515	47.6	60.9	59.6	68.4	60.6	40.1
U91-2519	54.8	65.2	56.0	70.1	56.4	55.9
U91-2527	51.6	63.3	66.2	62.6	48.4	47.1
U91-2529	48.9	61.0	59.7	63.7	48.5	45.7
U91-2710	49.0	61.3	58.9	64.7	49.3	37.4
U91-2721	47.4	63.2	56.7	56.2	55.0	28.3
U91-2722	53.3	74.0	66.6	67.3	53.6	37.3
U91-2731	49.6	61.6	50.5	57.7	56.2	31.6
Hoyt (dtl)	51.5	62.0	56.8	59.4	43.7	42.8
HC85-1248	50.3	62.0	54.0	65.9	58.9	41.6
HC88-192	49.7	64.1	57.9	66.5	57.2	34.3
HC88-557	49.5	56.3	52.0	64.7	54.7	48.1
HC88-1021	52.5	60.5	67.5	63.2	57.1	42.7
HC88-1022	49.6	56.4	56.0	68.0	56.0	43.7
ORC9110	43.5	48.1	51.6	53.9	40.4	48.1
C.V. (%)		5.5	9.5	6.3	7.6	14.9
L.S.D. (5%)		6.7	10.6	8.1	8.5	12.9
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 1992

YIELD (bu/a)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville* OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	68.8	48.5	46.4	51.9	60.1	48.1	39.2
Kenwood (II)	68.4	57.8	40.0	40.0	56.8	42.9	32.4
Sturdy (I)	59.0	47.8	43.4	32.8	56.9	46.7	38.0
LN88-7837	56.9	46.5	46.0	43.9	47.0	39.5	24.4
LN88-10954	55.1	49.8	51.2	47.7	49.4	44.0	21.9
LN88-11039	59.0	43.4	46.2	44.1	49.0	41.9	31.7
LN88-11190	58.2	42.2	45.4	46.6	46.6	42.1	28.2
LN89-143	55.3	45.7	42.5	40.4	55.4	43.6	30.9
LN89-704	56.0	45.9	42.4	52.0	48.9	47.0	23.3
LN89-705	60.8	34.6	45.5	62.8	46.7	45.0	25.5
LN89-764	66.3	42.8	46.0	34.6	51.0	49.0	30.7
LN89-4732	57.7	46.3	38.0	30.0	55.6	40.1	32.5
LN89-4752	58.8	47.6	44.7	45.5	44.9	38.7	37.2
LN89-4854	59.6	45.4	40.3	31.7	44.4	49.2	28.9
LN89-5079	58.3	46.7	42.1	42.5	47.7	42.5	37.6
ORC9108	65.0	49.7	49.5	46.7	59.5	44.0	38.9
U91-2104	63.5	46.1	46.5	41.9	50.4	45.6	34.6
U91-2202	60.1	46.3	45.4	26.9	56.3	36.7	37.4
U91-2305	59.0	38.5	43.7	30.2	55.6	41.0	38.3
U91-2316	57.6	52.7	43.6	35.4	52.1	41.8	38.9
U91-2408	60.6	48.9	43.3	26.8	51.2	45.0	27.6
U91-2510	55.8	48.9	44.6	41.3	53.5	33.3	32.4
U91-2514	57.6	52.8	40.2	38.2	58.1	37.5	33.2
U91-2515	22.9	34.5	48.1	37.6	54.5	43.8	30.6
U91-2519	63.8	48.5	44.8	42.1	56.9	47.5	37.8
U91-2527	63.4	37.2	43.6	44.6	56.1	53.1	26.4
U91-2529	59.0	41.3	37.8	43.5	55.1	41.4	24.4
U91-2710	57.7	43.3	43.3	41.5	50.9	37.6	34.1
U91-2721	65.0	42.0	40.5	43.1	50.1	40.0	24.5
U91-2722	64.5	46.2	45.3	39.5	55.6	44.6	31.5
U91-2731	59.6	45.3	43.6	27.6	58.6	43.5	37.1
Hoyt (dtl)	68.4	52.1	47.2	25.3	53.5	47.6	33.0
HC85-1248	54.2	49.3	50.8	48.5	49.9	43.8	22.8
HC88-192	62.6	42.3	45.5	56.2	43.9	48.2	24.6
HC88-557	62.0	46.8	49.6	48.8	44.1	41.3	25.2
HC88-1021	62.5	47.8	45.6	47.8	50.9	49.4	30.5
HC88-1022	58.6	45.3	44.0	47.8	47.8	46.2	23.2
ORC9110	36.7	49.1	41.9	48.8	42.5	32.3	34.1
C.V. (%)	7.8	9.6	8.4	19.7	5.6	10.7	11.2
L.S.D. (5%)	9.3	12.6	7.6	16.7	6.0	9.4	7.0
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

* Data Not Included in the Mean

PRELIMINARY TEST IIB, 1992

YIELD RANK

Strain	Yield Rank	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	2	11	12	8	15	15
Kenwood (II)	5	2	28	21	12	12
Sturdy (I)	15	12	33	34	34	10
LN88-7837	17	4	38	3	1	3
LN88-10954	26	34	35	13	24	14
LN88-11039	27	31	20	29	2	35
LN88-11190	37	21	36	35	10	38
LN89-143	12	15	17	6	8	16
LN89-704	20	30	13	2	16	19
LN89-705	31	32	34	12	4	24
LN89-764	8	21	25	1	28	17
LN89-4732	36	27	37	37	23	29
LN89-4752	31	28	27	27	29	33
LN89-4854	33	36	24	26	30	28
LN89-5079	20	26	21	22	21	25
ORC9108	2	24	5	10	14	9
U91-2104	6	25	6	15	7	6
U91-2202	14	29	13	32	25	4
U91-2305	19	5	4	25	36	32
U91-2316	8	17	32	30	6	2
U91-2408	16	7	22	16	12	27
U91-2510	30	37	23	22	27	20
U91-2514	12	8	10	28	31	5
U91-2515	34	20	8	5	3	26
U91-2519	1	3	18	4	17	1
U91-2527	10	9	3	24	34	11
U91-2529	29	19	7	19	33	13
U91-2710	28	17	9	16	32	30
U91-2721	35	10	16	36	20	37
U91-2722	4	1	2	9	26	31
U91-2731	23	16	31	33	18	36
Hoyt (dtl)	11	12	15	31	37	20
HC85-1248	17	12	26	13	5	23
HC88-192	22	6	11	11	9	33
HC88-557	25	34	29	16	22	7
HC88-1021	7	21	1	20	10	22
HC88-1022	23	33	18	7	19	18
ORC9110	38	38	30	38	38	7

PRELIMINARY TEST IIB, 1992

YIELD RANK

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1	11	8	4	1	6	1
Kenwood (II)	2	1	36	25	7	22	17
Sturdy (I)	19	13	26	31	5	10	5
LN88-7837	31	18	10	16	31	32	33
LN88-10954	35	5	1	10	26	16	38
LN88-11039	19	28	9	15	27	25	19
LN88-11190	26	32	15	12	33	24	26
LN89-143	34	24	29	24	13	20	21
LN89-704	32	23	30	3	28	9	35
LN89-705	14	37	13	1	32	13	29
LN89-764	4	30	10	30	20	4	22
LN89-4732	27	19	37	34	10	30	16
LN89-4752	23	15	19	13	34	33	9
LN89-4854	17	25	34	32	35	3	25
LN89-5079	25	17	31	19	30	23	7
ORC9108	5	6	4	11	2	16	2
U91-2104	9	22	7	21	23	12	11
U91-2202	16	19	15	36	8	36	8
U91-2305	19	35	22	33	10	29	4
U91-2316	29	3	23	29	18	26	2
U91-2408	15	9	27	37	19	13	27
U91-2510	33	9	20	23	16	37	17
U91-2514	29	2	35	27	4	35	14
U91-2515	38	38	5	28	15	18	23
U91-2519	8	11	18	20	5	8	6
U91-2527	10	36	23	14	9	1	28
U91-2529	19	34	38	17	14	27	33
U91-2710	27	29	27	22	21	34	12
U91-2721	5	33	33	18	24	31	32
U91-2722	7	21	17	26	10	15	20
U91-2731	17	26	23	35	3	21	10
Hoyt (dtl)	2	4	6	38	16	7	15
HC85-1248	36	7	2	7	25	18	37
HC88-192	11	31	13	2	37	5	31
HC88-557	13	16	3	5	36	28	30
HC88-1021	12	13	12	8	21	2	24
HC88-1022	24	26	21	8	29	11	36
ORC9110	37	8	32	5	38	38	12

PRELIMINARY TEST IIB, 1992

MATURITY (date)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	5.5	8		7	6	5
Kenwood (II)	09/22	09/16		09/09	09/11	09/29
Sturdy (I)	-0.4	0		-7	-2	-1
LN88-7837	9.5	12		9	9	8
LN88-10954	5.3	6		5	5	6
LN88-11039	7.9	12		8	9	2
LN88-11190	6.9	10		6	9	2
LN89-143	6.0	8		6	5	3
LN89-704	9.2	13		9	8	5
LN89-705	9.0	12		9	7	6
LN89-764	6.9	10		8	5	3
LN89-4732	5.2	8		4	6	1
LN89-4752	5.6	10		7	7	0
LN89-4854	4.0	6		4	5	1
LN89-5079	5.5	9		7	5	4
ORC9108	4.8	10		4	6	5
U91-2104	3.1	4		2	4	0
U91-2202	0.5	0		0	0	0
U91-2305	2.4	4		2	1	-5
U91-2316	3.5	4		4	4	5
U91-2408	1.5	2		1	2	-3
U91-2510	1.8	2		3	1	0
U91-2514	1.8	2		0	0	1
U91-2515	6.1	8		6	7	3
U91-2519	5.6	10		9	6	4
U91-2527	2.6	6		1	0	-1
U91-2529	1.9	2		0	2	2
U91-2710	4.7	6		5	2	1
U91-2721	6.0	8		5	7	1
U91-2722	2.9	4		0	3	1
U91-2731	4.4	8		2	5	-1
Hoyt (dtl)	4.5	9		5	7	1
HC85-1248	8.0	12		6	8	4
HC88-192	11.5	16		12	10	3
HC88-557	11.7	16		11	10	9
HC88-1021	10.1	16		13	9	4
HC88-1022	11.2	16		13	10	6
ORC9110	6.5	10		8	8	2
Date Planted	05/16	05/07		05/07	05/08	05/15
Days to Mature	128.9	132		125	126	137

PRELIMINARY TEST IIB, 1992

MATURITY (date)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	5	7	3	3	4	6	6
Kenwood (II)	09/20	09/28	09/18	09/16	09/30	09/25	10/10
Sturdy (I)	0	2	-2	-1	2	3	2
LN88-7837	10	7	6	8	12	12	11
LN88-10954	4	5	4	3	4	6	10
LN88-11039	9	7	7	7	7	9	10
LN88-11190	5	7	5	4	7	11	10
LN89-143	5	6	5	6	5	9	8
LN89-704	8	7	7	13	10	11	10
LN89-705	8	10	6	12	9	10	10
LN89-764	8	7	4	8	6	7	10
LN89-4732	6	7	2	3	3	7	10
LN89-4752	8	7	3	3	4	3	10
LN89-4854	5	5	5	2	2	5	4
LN89-5079	6	7	2	3	4	7	6
ORC9108	6	3	4	2	5	6	2
U91-2104	3	2	5	3	3	3	5
U91-2202	0	1	1	1	-1	-3	6
U91-2305	4	2	2	1	3	4	8
U91-2316	4	4	1	1	3	5	4
U91-2408	1	2	-1	0	3	3	6
U91-2510	2	2	-1	2	3	4	2
U91-2514	2	2	1	-1	-1	5	9
U91-2515	7	7	5	6	6	6	6
U91-2519	5	5	5	4	5	3	6
U91-2527	5	6	1	1	4	5	1
U91-2529	1	2	-2	1	2	3	8
U91-2710	4	6	2	3	7	8	8
U91-2721	7	7	0	4	8	9	10
U91-2722	5	5	0	2	4	5	3
U91-2731	7	7	1	1	4	8	6
Hoyt (dtl)	6	6	6	1	4	3	2
HC85-1248	7	8	7	12	10	4	10
HC88-192	14	14	7	13	18	10	9
HC88-557	12	13	9	12	18	8	11
HC88-1021	12	8	6	12	14	6	11
HC88-1022	12	13	8	13	14	8	10
ORC9110	6	7	6	6	9	4	6
Date Planted	05/09	05/21	06/10	05/15	05/22	05/05	05/27
Days to Mature	134	130	100	124	131	143	136

PRELIMINARY TEST IIB, 1992

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	2.0	1.7	2.3	2.0	1.5	3.0
Kenwood (II)	2.1	1.9	2.0	2.5	2.0	3.0
Sturdy (I)	2.3	2.5	3.0	4.0	1.5	2.5
LN88-7837	2.6	2.9	3.5	2.5	2.8	3.5
LN88-10954	1.8	1.4	2.3	1.5	1.3	2.5
LN88-11039	2.6	2.0	3.3	3.0	2.5	2.5
LN88-11190	1.4	1.2	1.4	1.0	1.0	2.0
LN89-143	1.6	1.2	1.3	1.0	1.0	2.5
LN89-704	1.4	1.2	1.4	1.0	1.0	3.0
LN89-705	1.7	1.3	2.1	1.0	1.0	2.5
LN89-764	1.4	1.2	1.3	1.0	1.0	1.0
LN89-4732	2.0	1.6	2.6	2.0	1.5	3.0
LN89-4752	2.0	1.6	2.0	2.0	1.8	3.0
LN89-4854	1.7	1.2	1.4	2.0	1.0	3.0
LN89-5079	1.7	1.3	1.8	1.0	1.0	3.0
ORC9108	2.2	2.1	2.7	2.0	1.8	3.0
U91-2104	1.8	1.2	2.7	1.5	1.3	2.5
U91-2202	1.6	1.2	1.3	1.5	1.0	3.0
U91-2305	1.8	2.1	1.9	2.5	1.3	2.5
U91-2316	1.6	1.5	1.9	1.0	1.0	3.0
U91-2408	1.8	1.3	2.6	2.0	1.3	3.0
U91-2510	1.6	1.4	1.7	1.5	1.5	2.0
U91-2514	1.4	1.2	1.1	1.0	1.0	3.0
U91-2515	1.5	1.3	1.4	1.0	1.3	2.5
U91-2519	2.0	1.7	2.0	2.5	1.3	3.0
U91-2527	2.0	1.5	2.2	4.0	1.5	2.5
U91-2529	1.8	1.3	1.6	2.0	1.0	3.0
U91-2710	1.8	1.5	1.8	2.0	1.3	3.0
U91-2721	2.7	2.5	2.8	4.0	2.5	2.5
U91-2722	2.1	2.3	3.0	2.5	2.0	3.0
U91-2731	1.6	1.2	1.5	1.0	1.3	2.5
Hoyt (dtl)	1.7	1.3	1.5	1.0	1.0	2.0
HC85-1248	1.4	1.3	1.3	1.0	1.0	2.0
HC88-192	2.0	1.3	1.7	1.0	1.0	2.5
HC88-557	1.9	1.4	1.5	1.0	1.0	1.5
HC88-1021	2.0	1.3	1.4	1.0	1.0	2.5
HC88-1022	1.9	1.4	1.4	1.0	1.0	2.5
ORC9110	1.4	1.1	1.1	1.0	1.0	2.5

PRELIMINARY TEST IIB, 1992

LODGING (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.0	2.0	2.0	1.4	1.0	3.0	3.5
Kenwood (II)	1.5	1.0	3.0	1.4	1.6	2.5	3.0
Sturdy (I)	1.5	1.5	2.0	1.2	2.0	2.5	3.0
LN88-7837	1.0	3.0	1.5	1.1	2.0	3.0	4.0
LN88-10954	1.0	1.5	2.0	1.4	1.5	2.0	3.5
LN88-11039	1.0	3.0	3.5	1.3	2.0	3.0	4.0
LN88-11190	1.0	1.0	1.0	1.3	1.0	2.0	3.0
LN89-143	1.0	2.0	1.0	1.2	1.5	2.0	3.0
LN89-704	1.0	1.5	1.0	1.2	1.0	1.5	1.5
LN89-705	1.0	2.5	1.0	1.3	1.5	1.5	3.5
LN89-764	1.0	2.0	1.5	1.2	1.0	1.5	3.0
LN89-4732	1.0	1.5	2.0	1.3	2.0	2.0	3.0
LN89-4752	1.0	2.0	2.0	1.5	1.0	2.0	3.5
LN89-4854	1.0	1.0	2.0	1.3	1.5	2.0	2.5
LN89-5079	1.0	1.5	2.0	1.3	1.0	2.0	3.5
ORC9108	1.0	2.0	2.0	1.2	2.0	3.0	3.0
U91-2104	1.0	2.0	1.5	1.1	1.5	2.0	3.0
U91-2202	1.0	1.0	1.5	1.2	1.5	2.0	3.5
U91-2305	1.0	1.0	2.0	1.2	1.0	2.5	3.0
U91-2316	1.0	2.0	1.0	1.2	1.5	2.0	2.5
U91-2408	1.0	2.0	1.0	1.4	1.5	2.0	3.0
U91-2510	1.0	1.0	1.5	1.1	2.0	2.0	3.0
U91-2514	1.0	1.0	1.0	1.1	1.0	1.5	3.0
U91-2515	1.0	1.0	1.0	1.2	1.0	2.5	3.0
U91-2519	1.0	2.0	2.0	1.3	1.0	2.5	3.5
U91-2527	1.5	2.0	1.0	1.2	1.0	2.5	3.0
U91-2529	1.0	1.5	2.0	1.2	1.1	2.5	3.0
U91-2710	1.0	2.0	2.0	1.2	1.0	2.0	3.0
U91-2721	2.0	2.5	3.5	1.5	2.0	3.0	3.5
U91-2722	1.0	2.0	2.0	1.4	1.0	2.0	3.0
U91-2731	1.0	2.0	1.5	1.2	1.0	2.0	3.5
Hoyt (dtl)	1.0	2.5	2.5	1.1	2.0	1.5	3.0
HC85-1248	1.0	1.5	2.0	1.2	1.0	1.5	2.5
HC88-192	1.0	3.5	3.0	1.3	2.0	2.5	3.0
HC88-557	1.0	3.0	3.0	1.3	2.5	2.0	3.5
HC88-1021	1.0	3.5	3.0	1.3	2.5	2.0	3.5
HC88-1022	1.5	3.0	2.5	1.5	2.0	2.0	3.5
ORC9110	1.0	1.5	1.0	1.3	1.0	1.0	3.0

PRELIMINARY TEST IIB, 1992

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	35	37	40	38	41	42
Kenwood (II)	36	39	42	38	42	40
Sturdy (I)	35	34	39	36	39	41
LN88-7837	39	43	42	41	42	43
LN88-10954	37	42	43	40	42	39
LN88-11039	39	42	46	46	44	44
LN88-11190	36	42	46	39	40	36
LN89-143	34	38	41	36	39	40
LN89-704	34	38	42	39	38	39
LN89-705	34	40	40	39	38	35
LN89-764	32	38	38	38	35	33
LN89-4732	33	36	36	35	36	38
LN89-4752	35	40	42	36	37	39
LN89-4854	33	35	38	36	39	38
LN89-5079	34	36	42	36	38	39
ORC9108	37	42	41	41	41	41
U91-2104	35	40	42	40	38	40
U91-2202	34	37	40	37	39	38
U91-2305	36	38	44	39	41	40
U91-2316	35	41	46	36	40	41
U91-2408	36	40	42	41	39	37
U91-2510	36	40	44	41	43	41
U91-2514	35	38	42	40	39	38
U91-2515	35	40	42	39	41	38
U91-2519	34	36	39	35	39	38
U91-2527	34	36	41	38	40	36
U91-2529	35	38	42	39	37	38
U91-2710	40	44	48	44	44	50
U91-2721	39	45	47	41	44	43
U91-2722	36	42	44	39	41	40
U91-2731	34	38	40	38	39	38
Hoyt (dtl)	26	30	30	23	24	30
HC85-1248	25	26	31	23	29	32
HC88-192	32	33	33	31	32	41
HC88-557	29	32	29	28	32	29
HC88-1021	28	30	30	26	34	28
HC88-1022	27	27	31	26	28	28
ORC9110	24	24	26	21	27	33

PRELIMINARY TEST IIB, 1992

PLANT HEIGHT (inches)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	34	35	28	28	36	33	32
Kenwood (II)	34	41	30	27	35	34	28
Sturdy (I)	34	41	30	22	38	32	32
LN88-7837	42	46	30	26	39	38	34
LN88-10954	38	36	29	29	37	35	31
LN88-11039	37	40	31	28	41	37	35
LN88-11190	36	39	22	27	34	36	30
LN89-143	34	37	27	24	34	31	27
LN89-704	33	35	27	25	34	31	27
LN89-705	33	34	28	27	33	32	27
LN89-764	30	33	24	26	30	30	26
LN89-4732	32	35	29	23	35	33	29
LN89-4752	35	36	30	31	35	31	32
LN89-4854	31	34	29	20	33	31	26
LN89-5079	35	34	30	28	32	30	32
ORC9108	37	39	30	29	38	34	28
U91-2104	36	37	29	26	33	30	28
U91-2202	35	36	30	22	32	34	29
U91-2305	34	38	31	25	35	35	31
U91-2316	34	39	29	23	36	29	29
U91-2408	38	44	27	28	37	32	31
U91-2510	35	34	31	28	37	33	28
U91-2514	35	37	28	25	32	33	31
U91-2515	31	32	29	24	36	35	27
U91-2519	34	37	29	24	33	32	29
U91-2527	35	36	29	22	32	33	29
U91-2529	38	39	31	24	34	31	28
U91-2710	40	42	33	30	38	34	33
U91-2721	39	45	31	30	38	37	31
U91-2722	37	39	30	25	39	33	28
U91-2731	36	39	28	22	33	30	28
Hoyt (dtl)	26	30	28	19	32	22	19
HC85-1248	21	30	24	21	25	22	20
HC88-192	30	36	31	27	33	30	26
HC88-557	27	31	27	21	31	33	24
HC88-1021	26	30	26	24	31	24	23
HC88-1022	23	32	26	26	31	23	21
ORC9110	21	29	19	20	31	19	19

PRELIMINARY TEST IIB, 1992

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	1.7	1.5	2.4	1.4	1.0	
Kenwood (II)	1.7	1.3	2.0	1.4	1.0	
Sturdy (I)	1.9	1.2	2.7	1.4	1.5	
LN88-7837	2.1	2.2	3.2	1.4	1.0	
LN88-10954	1.5	1.1	2.1	1.2	1.0	
LN88-11039	1.6	1.3	2.4	1.2	1.0	
LN88-11190	1.6	1.5	1.8	1.2	1.0	
LN89-143	1.5	1.2	1.5	1.2	1.0	
LN89-704	1.7	1.7	2.2	1.2	1.0	
LN89-705	1.8	1.8	2.5	1.2	1.0	
LN89-764	1.5	1.6	2.0	1.2	1.0	
LN89-4732	1.8	1.4	2.3	1.4	1.0	
LN89-4752	1.7	1.6	2.0	1.2	1.0	
LN89-4854	1.6	1.4	2.1	1.2	1.0	
LN89-5079	1.8	1.8	1.8	1.4	1.0	
ORC9108	1.7	1.3	2.0	1.2	1.0	
U91-2104	1.8	1.4	2.2	1.4	1.0	
U91-2202	1.9	1.7	1.9	1.2	1.5	
U91-2305	1.9	1.9	2.1	1.5	1.5	
U91-2316	1.7	1.5	1.8	1.2	1.0	
U91-2408	1.8	1.6	2.5	1.2	1.0	
U91-2510	1.6	1.4	2.0	1.2	1.0	
U91-2514	1.9	1.4	2.2	1.2	1.0	
U91-2515	1.6	1.5	1.7	1.2	1.0	
U91-2519	1.6	1.7	1.8	1.2	1.0	
U91-2527	1.8	1.4	1.9	1.2	1.0	
U91-2529	1.7	2.0	2.5	1.2	1.0	
U91-2710	1.6	1.6	1.9	1.2	1.0	
U91-2721	2.0	1.5	2.2	1.2	1.0	
U91-2722	2.0	1.7	2.1	1.4	1.0	
U91-2731	1.7	1.6	2.2	1.2	1.0	
Hoyt (dtl)	1.8	1.4	1.5	1.5	1.0	
HC85-1248	1.6	1.7	1.7	1.2	1.0	
HC88-192	1.7	1.6	1.7	1.2	1.0	
HC88-557	1.6	1.4	1.5	1.2	1.0	
HC88-1021	1.8	1.5	2.0	1.2	1.0	
HC88-1022	1.7	1.5	2.0	1.2	1.0	
ORC9110	2.2	2.5	2.6	2.5	1.0	

PRELIMINARY TEST IIB, 1992

SEED QUALITY (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.5	1.5	1.5	1.5	1.0	3.5	2.0
Kenwood (II)	1.5	1.0	2.0	2.0	1.0	3.5	2.0
Sturdy (I)	1.0	2.0	1.5	2.5	1.0	4.5	2.0
LN88-7837	2.0	1.5	2.0	1.5	1.0	5.0	2.0
LN88-10954	1.5	1.5	1.0	1.6	1.0	3.0	2.0
LN88-11039	1.5	1.5	1.0	1.4	1.0	3.0	2.0
LN88-11190	1.5	1.5	1.5	1.2	1.0	3.0	2.0
LN89-143	1.5	1.5	1.0	1.6	1.0	3.0	2.0
LN89-704	1.0	2.0	1.0	1.4	1.5	4.0	2.0
LN89-705	1.5	2.0	1.0	1.4	1.5	3.5	2.0
LN89-764	1.5	1.5	1.0	1.2	1.0	3.0	2.0
LN89-4732	2.0	2.0	1.5	2.0	1.0	3.5	2.0
LN89-4752	1.5	2.0	1.5	1.5	1.0	3.0	2.0
LN89-4854	1.5	2.0	1.0	1.7	1.0	3.0	2.0
LN89-5079	1.5	1.5	2.0	1.6	1.5	4.0	2.0
ORC9108	1.5	2.5	1.5	1.1	1.5	3.0	2.0
U91-2104	1.5	2.0	1.0	1.8	2.0	4.0	2.0
U91-2202	1.5	2.0	1.5	2.8	1.0	3.5	2.0
U91-2305	1.5	2.0	2.0	1.5	1.0	4.0	2.0
U91-2316	1.5	2.0	1.0	2.0	1.0	3.5	2.0
U91-2408	1.5	2.0	1.0	1.5	1.5	4.0	2.0
U91-2510	1.0	2.0	1.5	1.2	1.0	3.0	2.0
U91-2514	1.5	2.0	2.0	2.2	1.0	4.0	2.0
U91-2515	1.5	1.5	1.0	1.3	1.0	3.5	2.0
U91-2519	1.5	1.5	1.0	2.4	1.0	3.0	2.0
U91-2527	1.5	2.5	1.5	1.3	1.0	4.0	2.0
U91-2529	1.0	1.5	1.0	2.0	1.0	3.5	2.0
U91-2710	1.5	2.0	1.0	1.6	1.0	3.0	2.0
U91-2721	2.0	2.5	1.5	1.9	2.0	4.0	2.0
U91-2722	2.0	2.0	1.5	2.0	3.0	3.5	2.0
U91-2731	1.5	1.5	1.5	2.2	1.0	3.5	2.0
Hoyt (dtl)	1.5	2.0	2.0	1.3	3.0	3.0	2.0
HC85-1248	1.5	1.5	1.0	1.2	1.0	3.0	3.0
HC88-192	2.0	2.0	1.0	1.1	1.0	3.0	3.0
HC88-557	1.5	2.0	1.0	1.1	1.0	3.0	3.0
HC88-1021	1.5	2.0	1.0	1.1	2.0	3.5	3.0
HC88-1022	1.5	2.0	1.0	1.4	1.0	3.5	3.0
ORC9110	2.5	2.0	2.0	2.0	1.0	4.0	2.0

PRELIMINARY TEST IIB, 1992

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Grand Junction IA	Urbana IL	Lafay-ette IN	East Lansing MI
IA2007 (L)	18.3	18.5	18.1	17.2	16.9	19.4
Kenwood (II)	16.9	17.1	16.4	15.4	14.8	18.6
Sturdy (I)	18.8	19.8	17.8	17.7	17.5	18.8
LN88-7837	14.9	15.0	13.3	14.8	13.3	16.8
LN88-10954	18.8	18.4	19.2	17.8	17.2	20.5
LN88-11039	16.5	16.6	16.6	15.5	15.2	16.8
LN88-11190	15.8	15.9	15.5	15.1	14.4	15.6
LN89-143	18.3	18.7	18.7	17.6	15.8	18.4
LN89-704	16.3	16.4	16.5	17.5	15.2	16.0
LN89-705	17.1	16.6	17.0	18.1	16.2	16.6
LN89-764	16.5	16.3	16.4	16.9	14.8	16.2
LN89-4732	16.0	16.6	15.9	14.4	13.4	16.6
LN89-4752	15.0	15.4	15.2	14.8	13.1	14.1
LN89-4854	15.7	16.0	16.3	14.1	13.9	17.6
LN89-5079	16.4	16.8	16.9	16.2	14.2	17.7
ORC9108	16.0	16.9	15.6	15.4	14.4	17.4
U91-2104	15.8	15.4	15.2	14.6	14.3	16.0
U91-2202	19.7	20.4	18.9	16.9	18.2	21.0
U91-2305	18.2	19.7	18.3	17.0	16.7	18.0
U91-2316	16.4	16.8	15.7	16.6	15.3	18.1
U91-2408	17.0	18.0	17.6	17.3	15.2	15.8
U91-2510	17.2	17.0	17.4	17.4	15.5	18.3
U91-2514	17.7	18.2	17.0	17.4	15.9	19.5
U91-2515	17.5	17.3	17.0	17.9	15.7	18.1
U91-2519	17.7	18.0	18.2	18.4	16.0	19.1
U91-2527	17.7	17.9	17.8	16.8	15.9	17.3
U91-2529	18.3	18.3	18.8	17.7	16.9	19.8
U91-2710	16.4	17.0	16.8	16.8	14.8	15.8
U91-2721	15.5	16.4	15.6	14.5	14.1	15.2
U91-2722	15.3	16.2	15.3	15.2	13.5	15.5
U91-2731	17.1	17.4	16.5	15.6	15.1	17.2
Hoyt (dt1)	14.2	14.2	14.0	15.3	13.6	15.2
HC85-1248	15.8	15.8	15.6	14.4	14.7	16.8
HC88-192	18.1	18.7	18.8	18.5	17.5	18.4
HC88-557	18.1	18.6	18.8	17.6	17.2	19.1
HC88-1021	17.7	18.8	18.0	17.0	15.7	18.2
HC88-1022	17.7	18.1	17.6	18.3	16.5	18.4
ORC9110	18.4	18.9	18.6	18.6	18.5	18.9

PRELIMINARY TEST IIB, 1992

SEED SIZE (g\100)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Chat-ham Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	20.3	20.6	18.5	16.5		17.5	17.6
Kenwood (II)	21.4	20.3	15.5	15.3		16.0	15.3
Sturdy (I)	18.8	21.6	19.5	19.1		18.5	17.6
LN88-7837	16.3	15.9	14.5	14.3		16.0	13.9
LN88-10954	19.5	22.3	18.0	16.8		19.0	18.0
LN88-11039	17.9	18.6	16.5	15.9		17.0	15.3
LN88-11190	17.3	17.8	15.5	16.0		16.0	15.2
LN89-143	20.0	21.1	19.0	16.6		18.5	16.5
LN89-704	16.3	18.0	17.5	16.9		16.5	12.6
LN89-705	18.3	17.8	19.0	18.0		16.5	14.0
LN89-764	19.1	17.0	17.0	16.6		17.0	14.0
LN89-4732	17.2	18.4	15.0	16.1		17.0	15.7
LN89-4752	19.3	17.0	14.0	14.7		14.5	13.2
LN89-4854	17.6	18.1	16.0	13.0		16.5	13.8
LN89-5079	18.3	18.3	15.0	15.1		17.5	14.2
ORC9108	18.0	18.1	16.5	14.1		15.5	13.7
U91-2104	18.3	16.3	15.5	14.1		15.5	18.6
U91-2202	21.4	23.3	18.5	20.9		20.0	17.1
U91-2305	19.7	21.6	17.5	17.8		18.5	15.0
U91-2316	17.7	18.8	16.5	15.1		15.0	15.3
U91-2408	19.5	18.9	16.5	15.4		17.0	16.0
U91-2510	19.2	19.3	16.0	15.6		17.0	16.8
U91-2514	19.0	21.2	18.0	15.8		17.0	15.6
U91-2515	21.0	19.3	17.0	17.2		17.0	15.1
U91-2519	19.9	19.8	17.0	14.6		17.5	15.7
U91-2527	20.0	18.8	17.0	17.5		18.0	17.6
U91-2529	19.6	20.8	17.5	18.6		18.5	14.8
U91-2710	17.6	17.3	17.5	15.8		16.5	14.4
U91-2721	17.4	16.7	15.0	15.6		16.5	13.9
U91-2722	17.8	18.3	15.0	12.7		15.5	13.5
U91-2731	19.8	20.3	16.5	15.5		18.5	15.7
Hoyt (dtl)	15.6	14.8	13.0	13.0		14.0	13.1
HC85-1248	18.5	16.3	16.0	15.5		15.5	14.6
HC88-192	19.6	18.3	18.0	18.4		18.5	14.3
HC88-557	19.2	17.6	19.0	17.9		18.0	15.7
HC88-1021	19.5	18.6	18.0	17.5		18.0	15.0
HC88-1022	20.5	18.7	17.0	17.2		17.5	14.4
ORC9110	20.5	20.1	18.0	16.6		17.5	16.7

PRELIMINARY TEST IIB, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	39.6	38.6	40.0	41.0	38.8
Kenwood (II)	39.9	38.8	39.9	41.6	39.3
Sturdy (I)	41.0	38.6	41.7	42.0	41.5
LN88-7837	41.1	41.8	41.1	41.4	40.2
LN88-10954	41.5	40.0	42.1	43.3	40.6
LN88-11039	41.3	40.4	41.4	42.0	41.4
LN88-11190	43.2	40.8	44.6	44.2	43.0
LN89-143	42.2	42.2	42.1	43.2	41.3
LN89-704	41.5	41.3	40.7	42.4	41.5
LN89-705	41.1	41.5	40.8	40.9	41.0
LN89-764	41.0	41.0	41.2	41.4	40.2
LN89-4732	42.2	41.8	42.5	43.1	41.5
LN89-4752	42.6	41.8	42.1	43.6	43.0
LN89-4854	42.8	42.6	42.8	43.9	41.9
LN89-5079	40.6	42.5	39.3	41.4	39.0
ORC9108	40.8	39.2	41.3	42.5	40.0
U91-2104	40.3	40.0	39.7	40.7	40.7
U91-2202	40.5	40.3	40.9	40.7	40.2
U91-2305	40.4	39.7	40.1	40.7	41.0
U91-2316	40.1	40.1	40.1	40.5	39.5
U91-2408	40.8	40.2	41.1	42.2	39.7
U91-2510	41.3	41.4	40.6	42.1	41.2
U91-2514	39.0	38.6	38.4	39.9	39.1
U91-2515	41.5	41.1	41.6	43.0	40.1
U91-2519	39.9	39.0	40.0	41.6	38.8
U91-2527	40.6	39.7	40.9	41.0	40.8
U91-2529	41.6	40.6	41.2	42.7	41.7
U91-2710	41.8	40.6	42.0	42.6	42.1
U91-2721	42.1	40.8	41.4	43.0	43.2
U91-2722	41.8	40.7	42.0	43.2	41.3
U91-2731	40.2	38.9	40.1	41.1	40.5
Hoyt (dtl)	41.2	39.9	42.3	42.3	40.1
HC85-1248	39.2	39.2	39.6	40.1	38.0
HC88-192	40.2	39.9	39.7	41.9	39.2
HC88-557	41.1	40.5	41.5	42.3	40.1
HC88-1021	40.1	39.3	40.5	41.3	39.1
HC88-1022	39.7	39.8	40.0	41.0	38.0
ORC9110	43.0	41.9	43.3	44.6	42.2

PRELIMINARY TEST IIB, 1992

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	David City NE
IA2007 (L)	20.5	20.4	21.2	20.3	20.0
Kenwood (II)	20.4	20.8	21.6	19.8	19.3
Sturdy (I)	19.7	20.6	20.5	19.4	18.4
LN88-7837	19.6	19.6	20.7	19.1	19.0
LN88-10954	19.7	20.1	20.8	18.8	19.2
LN88-11039	19.9	19.8	21.4	19.9	18.5
LN88-11190	19.3	20.8	19.1	18.9	18.4
LN89-143	19.9	19.1	20.9	19.7	19.9
LN89-704	19.3	19.8	20.6	18.9	17.7
LN89-705	19.6	19.0	20.9	20.2	18.4
LN89-764	20.0	19.5	20.8	20.0	19.6
LN89-4732	18.8	18.4	20.2	18.5	18.1
LN89-4752	18.9	19.3	20.4	18.7	17.2
LN89-4854	19.4	19.2	20.1	19.2	18.9
LN89-5079	19.6	19.1	20.9	18.6	19.6
ORC9108	19.8	20.2	20.5	19.1	19.3
U91-2104	21.1	20.0	21.6	20.2	22.4
U91-2202	20.1	19.9	20.8	20.4	19.4
U91-2305	20.4	20.5	21.7	20.4	18.9
U91-2316	20.0	19.9	21.2	20.0	19.0
U91-2408	19.6	20.0	20.6	18.7	19.1
U91-2510	19.3	18.9	20.9	18.8	18.7
U91-2514	21.0	20.4	22.3	21.1	20.2
U91-2515	19.5	19.4	20.6	19.5	18.6
U91-2519	20.7	19.9	22.1	20.0	20.6
U91-2527	20.4	19.7	22.0	20.3	19.6
U91-2529	19.4	18.9	20.8	19.5	18.5
U91-2710	19.3	18.8	20.3	19.1	18.8
U91-2721	19.2	19.2	21.1	18.9	17.6
U91-2722	19.8	19.7	20.6	19.4	19.6
U91-2731	19.7	18.9	21.0	19.8	19.0
Hoyt (dtl)	19.7	19.1	20.4	20.1	19.2
HC85-1248	19.7	18.8	21.3	19.8	19.0
HC88-192	20.0	19.4	21.7	19.8	19.2
HC88-557	18.8	18.2	20.2	18.3	18.4
HC88-1021	20.2	19.0	21.5	20.2	20.2
HC88-1022	20.0	19.0	21.3	19.7	19.8
ORC9110	17.8	17.4	18.7	17.5	17.4

UNIFORM TEST III, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Charleston (dt1)	HC74-634RE x HC78-676	3	F5	dt1
Flyer (IV)	Asgrow A3127[4] x Williams 82	6	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	UT II	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	6	BC3 F3	Rps1-k
C1832	Spencer x Resnik	PT IIIB	F5	Rps1-k
C1845	(Spencer[2] x Pella 86) x Resnik	PT IIIB	F5	Rps1-k(H)
HC78-676-2	HC78-676[6] x Williams 82	PT IIIB	F5	dt1
HC78-676-3	HC78-676[6] x Williams 82	PT IIIB	F5	dt1
HC78-676-13	HC78-676[6] x Williams 82	PT IIIB	F5	dt1
HC85-603	Sprite x Asgrow A3127	1	F5	dt1
HC85-607	Sprite x Asgrow A3127	2	F5	dt1
HC85-618	Sprite x Asgrow A3127	2	F5	dt1
HC86-278	Pixie x HC78-676	PT IVB	F5	dt1
HC86-554	HC74-634RE x HC78-676	1	F5	dt1
HM8890	A80-344003 x Asgrow A3127 BC_3 F_2-1	2	F6	
K1200	Sherman x Asgrow A3127	PT IIIA	F5	
LN86-3357	LN78-257 x Asgrow A3127	1	F5	Rps1-a
LN87-1744	Sherman x LN80-9729	1	F5	
LN87-2112	Sherman x Fayette	SCN III	?	
LN88-9900	LN81-1029 x Chamberlain	PT IIIA	F5	Rps?
LN88-9242	Sherman x Chamberlain	PT IIB	F5	
LN88-10534	LN81-1029 x Asgrow A2943	PT IIIA	F5	Rps?
SL89-314	HC79-478 x Asgrow A3127 BC	PT IIIA	?	
U90-2226	Sherman x U83-63042	PT IIIB	F5	
U90-2310	U80-64032 x Jacques J822	PT IIA	F5	
U90-2434	U80-64032 x Jacques J822	PT IIA	F5	
U90-2711	SG_1/BC/86-E_2	PT IIA	F5	

* Number of years in test or name of 1991 test.

UNIFORM TEST III, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Emerg. Score Ames	Chlorosis Score Hanska	Germination Lafayette %	Shattering Score Lubbock 10/3	Shattering Score Lubbock 10/10	Shattering Score Man-hattan
Charleston (dtl)	PTTDYBlD	1	4.0	86	1.5	3.0	1
Flyer (IV)	PTTSYBlI	1	4.0	84	1.5	2.3	1
IA2007 (II)	PTBDYBrI	1	3.8	72	1.3	2.3	1
Resnik (III)	PTTIYBlI	1	3.8	80	1.3	2.0	1
C1832	PTTDYBlI	2	4.3	100	2.0	2.8	1
C1845	P+WTTDYBlI	2	2.8	98	2.3	3.3	2
HC78-676-2	PTBDYBrD	5	2.8	94	2.5	3.5	2
HC78-676-3	PTBDYBrD	5	3.0	98	2.5	3.5	2
HC78-676-13	PTBDYBrD	2	2.8	98	2.5	3.3	3
HC85-603	P+WTTDYBlD	4	4.3	94	3.0	3.8	4
HC85-607	PTTIYBlD	3	4.0	94	2.3	2.8	1
HC85-618	PTTDYBlD	1	3.8	92	2.0	2.5	2
HC86-278	PTTDYBrD	3	2.3	92	2.3	3.3	1
HC86-554	WTTDYBrD	3	3.5	100	2.5	3.5	3
HM8890	WTBDYBlI	4	3.0	96	2.5	3.8	1
K1200	PGTDYIbI	5	3.0	100	1.5	2.8	1
LN86-3357	WGTDYBfI	3	4.0	92	2.3	3.3	1
LN87-1744	PGBDYBfI	3	2.8	96	2.8	4.0	2
LN87-2112	WGTDYBfI	5	2.5	98	2.3	5.0	1
LN88-9900	WGTIYBfI	5	2.5	92	2.0	3.5	1
LN88-9242	PTBSYBrI	3	3.5	90	3.0	4.8	3
LN88-10534	PGBDYIbI	2	3.0	98	2.3	3.0	1
SL89-314	PTTDYBlI	1	3.3	86	2.0	2.3	1
U90-2226	WGBDYBfI	5	3.8	94	3.5	5.0	1
U90-2310	WTTDYBrI	3	3.8	98	4.5	5.0	3
U90-2434	WGTDYBfI	2	2.8	94	2.8	4.3	2
U90-2711	WTTDYYI	2	2.5	92	2.5	3.5	2

UNIFORM TEST III, 1992

DISEASE DATA

Strain	BSR-Boone Plant n %	BSR-Boone Stem n %	PR Phyto. Tol. NW Branch	PR Urbana Race 1	PR Ames Race 4	PR Laf. Race 7	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a score
Charleston (dtl)	100	74.2	3.9	S	S	S	0	4	2M
Flyer (IV)	100	82.9	3.3	R	R	R	13	4	3E
IA2007 (II)	100	100.0	3.5	R	S	R	16	2	3E
Resnik (III)	100	87.7	3.6	R	R	R	3	4	1
C1832	90	78.8	5.0	H	R	R	9	0	4E
C1845	100	95.3	7.0	R	R	H	12	0	3M
HC78-676-2	100	79.3	5.1	R	R	R	31	0	3E
HC78-676-3	90	60.8	5.4	R	R	R	21	0	3M
HC78-676-13	100	51.1	4.4	R	R	R	17	0	3S
HC85-603	70	64.2	3.9	S	S	S	6	2	4E
HC85-607	80	64.1	4.1	S	S	S	1	2	3S
HC85-618	100	82.9	5.8	S	S	S	1	6	3E
HC86-278	90	70.9	4.9	S	S	S	9	0	3E
HC86-554	90	51.8	4.5	S	S	S	1	0	2M
HM8890	60	20.4	6.8	R	R	R	18	0	3E
K1200	100	56.6	3.5	R	R	R	21	0	2M
LN86-3357	90	72.1	3.4	R	S	S	12	8	3E
LN87-1744	70	29.3	3.3	S	H	S	8	2	2M
LN87-2112	70	42.2	3.4	S	H	R	11	0	2M
LN88-9900	100	70.8	5.0	R	S	S	19	4	3M
LN88-9242	60	27.1	3.5	S	S	S	6	6	3E
LN88-10534	90	81.0	5.3	R	S	S	6	0	1
SL89-314	100	83.5	3.1	R	R	R	22	8	2M
U90-2226	100	96.7	3.5	S	S	S	10	2	2M
U90-2310	100	74.2	3.5	S	S	S	3	2	3E
U90-2434	100	94.1	3.8	S	S	S	7	2	4S
U90-2711	100	90.0	3.5	H	S	S	7	2	2E

UNIFORM TEST III, 1992

SUDDEN DEATH SYNDROME

Strain	Ridgway		Cora				
	I %	S score	R6Date	R6DI	R6DS	R6DX	DX Rank
Charleston (dtl)	2	1.7	88	54	1.2	7.3	8
Flyer (IV)	35	4.0	94	75	1.4	12.1	16
IA2007 (II)	1	1.0	87	18	1.1	1.4	1
Resnik (III)	60	5.0	90	63	1.5	10.4	13
C1832	48	4.7	92	82	1.8	16.6	23
C1845	80	5.7	92	96	3.0	31.9	27
HC78-676-2	35	4.3	87	94	2.1	22.1	25
HC78-676-3	15	3.7	87	82	1.9	17.5	24
HC78-676-13	14	3.0	87	86	2.3	22.2	26
HC85-603	7	1.7	88	48	1.5	7.8	9
HC85-607	43	4.3	87	76	1.7	15.0	22
HC85-618	46	5.0	87	70	1.5	12.5	17
HC86-278	24	3.0	88	39	1.2	5.9	4
HC86-554	18	3.3	88	55	1.3	8.3	10
HM8890	50	4.3	92	75	1.5	12.0	15
K1200	56	4.7	90	69	1.4	11.1	14
LN86-3357	17	2.0	92	40	1.5	6.2	6
LN87-1744	24	3.3	92	75	1.8	14.8	21
LN87-2112	70	5.3	93	78	1.7	14.7	20
LN88-9900	17	2.3	91	57	1.2	7.1	7
LN88-9242	32	3.7	90	44	1.2	5.6	3
LN88-10534	38	4.7	90	59	1.4	9.1	11
SL89-314	18	4.0	91	81	1.6	14.1	18
U90-2226	33	4.7	91	57	1.2	7.3	8
U90-2310	2	1.7	86	78	1.6	14.5	19
U90-2434	1	1.0	87	44	1.3	6.1	5
U90-2711	96	6.0	88	98	3.9	43.3	29

UNIFORM TEST III, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 22 bu/a	Rank 22 No.	Maturity 19 Date	Lodging 25 Score	Plant Height 25 In.	Seed Quality 24 Score	Seed Size 23 g/100	Composition Protein 4 %	 Oil 4 %
Charleston (dtl)	53.9	11	4.7	1.4	24	1.5	15.7	41.0	19.3
Flyer (IV)	55.0	4	7.4	1.3	33	1.6	15.4	41.2	20.4
IA2007 (II)	51.2	21	-2.8	1.3	32	2.2	17.3	40.1	20.6
Resnik (III)	52.7	15	09/19*	1.2	32	1.6	15.5	41.7	19.9
C1832	56.3	2	5.1	1.5	33	1.8	16.0	41.2	19.7
C1845	52.3	18	4.3	1.2	31	1.7	17.2	40.6	19.9
HC78-676-2	50.5	25	4.0	1.3	23	1.8	15.2	40.7	19.2
HC78-676-3	50.0	26	4.7	1.4	23	1.7	15.8	41.0	19.1
HC78-676-13	48.4	27	4.2	1.3	22	1.8	15.7	41.3	19.1
HC85-603	52.9	14	4.3	1.3	24	1.7	16.1	40.3	20.6
HC85-607	54.7	5	3.9	1.3	24	1.6	15.8	39.6	20.7
HC85-618	54.2	9	4.3	1.5	25	1.7	16.7	40.6	20.9
HC86-278	50.9	23	4.9	1.3	23	1.6	15.7	42.0	19.4
HC86-554	52.4	17	3.2	1.3	25	1.7	17.2	40.9	19.9
HM8890	54.5	8	4.2	1.4	32	1.8	17.4	41.8	20.4
K1200	54.1	10	0.7	1.6	32	1.5	14.9	39.5	21.2
LN86-3357	54.7	5	5.8	1.3	36	1.7	14.0	40.3	20.0
LN87-1744	53.8	12	4.0	1.4	32	1.8	17.5	42.0	19.7
LN87-2112	51.2	21	6.3	1.3	33	1.9	14.9	41.3	20.7
LN88-9900	52.2	19	5.1	1.7	34	1.8	15.2	40.1	19.4
LN88-9242	52.6	16	-0.8	1.5	33	1.9	17.3	40.4	21.2
LN88-10534	55.2	3	-0.2	1.3	34	1.9	15.4	41.6	19.8
SL89-314	56.6	1	5.3	1.6	36	1.7	15.6	41.2	20.5
U90-2226	52.0	20	-0.3	1.4	29	1.7	14.5	41.6	20.3
U90-2310	54.7	5	-0.4	2.0	34	2.3	18.0	39.4	21.7
U90-2434	50.9	23	-1.2	1.4	33	2.4	18.0	40.3	20.9
U90-2711	53.3	13	-1.2	1.4	32	1.8	16.1	41.5	19.9

* 129.6 Days After Planting

UNIFORM TEST III, 1992

1991-1992 2-YEAR MEAN

No. of Tests Strain	Yield 47 bu/a	Rank 47 No.	Maturity 39 Date	Lodging 50 Score	Plant Height 50 In.	Seed Quality 49 Score	Seed Size 47 g/100	Composition Protein 9 %	Composition Oil 9 %
Charleston (dtl)	48.1	7	2.8	1.3	22	1.6	15.6	40.4	20.2
Flyer (IV)	52.8	1	6.3	1.3	33	1.7	14.9	41.1	20.8
Resnik (III)	50.8	4	9/15.5*	1.2	32	1.7	15.1	41.2	20.6
HC85-603	47.2	10	3.8	1.2	22	1.7	15.9	40.1	21.2
HC85-607	48.1	7	2.7	1.2	22	1.6	15.9	39.0	21.4
HC85-618	48.5	6	3.5	1.4	22	1.7	16.6	40.1	21.4
HC86-554	47.4	9	1.8	1.3	23	1.8	17.2	40.6	20.7
HM8890	51.5	2	3.3	1.4	31	1.9	17.1	41.0	21.0
LN86-3357	51.2	3	4.3	1.3	35	1.7	14.3	39.6	20.8
LN87-1774	49.3	5	4.3	1.5	31	1.8	17.2	41.8	20.5

* 124.8 Days After Planting

1990-1992 3-YEAR MEAN

No. of Tests Strain	Yield 74 bu/a	Rank 74 No.	Maturity 58 Date	Lodging 76 Score	Plant Height 77 In.	Seed Quality 74 Score	Seed Size 70 g/100	Composition Protein 14 %	Composition Oil 14 %
Charleston (dtl)	49.7	5	2.9	1.4	23	1.6	15.7	40.8	20.4
Flyer (IV)	52.4	1	5.7	1.4	33	1.7	14.9	41.4	20.8
Resnik (III)	51.1	3	9/19.0*	1.3	31	1.7	15.4	41.5	20.6
HC85-607	49.4	6	2.8	1.2	22	1.7	16.1	39.4	21.4
HC85-618	50.0	4	3.7	1.4	22	1.7	16.6	40.3	21.4
HM8890	51.9	2	2.5	1.5	31	1.9	17.3	41.3	20.9

* 124.1 Days After Planting

UNIFORM TEST III, 1992

YIELD (bu/a)

Strain	Mean 22 Tests	George-town DE *	Fair field IA	Tingley IA	Winter-set IA	Ridg-way IL *	Urbana IL
Charleston (dtl)	53.9	20.7	56.2	47.8	54.6	40.8	74.1
Flyer (IV)	55.0	15.6	52.1	51.0	53.5	45.1	73.2
IA2007 (II)	51.2	15.7	53.9	50.0	54.0	60.1	72.0
Resnik (III)	52.7	19.8	49.9	49.6	52.8	49.5	66.7
C1832	56.3	21.4	52.5	51.6	53.9	48.5	75.7
C1845	52.3	19.9	55.1	46.0	55.4	44.4	72.6
HC78-676-2	50.5	28.8	54.5	43.4	51.0	33.0	73.3
HC78-676-3	50.0	14.6	52.9	47.3	50.1	36.2	76.1
HC78-676-13	48.4	8.9	54.0	46.1	51.4	36.1	75.9
HC85-603	52.9	12.7	54.0	45.5	51.0	34.0	76.7
HC85-607	54.7	25.2	57.3	51.3	51.8	29.3	73.6
HC85-618	54.2	18.5	53.8	48.2	52.1	33.2	73.9
HC86-278	50.9	21.9	51.5	50.7	49.6	36.3	72.4
HC86-554	52.4	16.5	54.9	45.1	49.5	41.7	73.5
HM8890	54.5	27.6	54.1	52.9	54.5	42.8	74.1
K1200	54.1	26.8	51.1	47.5	52.3	43.7	74.7
LN86-3357	54.7	21.0	52.6	48.6	48.4	46.9	76.3
LN87-1744	53.8	17.7	49.9	45.3	47.8	50.7	76.3
LN87-2112	51.2	29.8	48.7	44.8	48.4	41.2	71.5
LN88-9900	52.2	13.2	48.8	45.3	54.5	47.7	70.7
LN88-9242	52.6	12.4	51.4	48.3	51.7	40.9	76.1
LN88-10534	55.2	14.0	54.2	52.0	52.6	43.7	73.8
SL89-314	56.6	24.4	54.1	53.7	51.8	47.2	75.8
U90-2226	52.0	23.0	51.1	47.7	52.1	48.5	69.3
U90-2310	54.7	17.9	57.5	51.1	51.5	52.1	70.2
U90-2434	50.9	22.6	49.5	44.8	47.4	56.8	72.6
U90-2711	53.3	26.3	54.2	50.3	53.9	41.6	73.8
C.V. (%)		37.0	5.4	6.0	6.1	23.4	4.5
L.S.D. (5%)		12.1	4.6	4.7	5.1	ns	5.4
Row Sp. (in.)		15	27	27	27	30	30
Rows/Plot		5	4	4	4	4	4
Reps		3	3	3	3	3	3

* Data Not Included in the Mean

UNIFORM TEST III, 1992

YIELD (bu/a)

Strain	Bluff-ton* IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	22.1	58.2	49.7	57.7	41.5	57.9
Flyer (IV)	44.3	52.0	72.1	60.0	44.0	64.5
IA2007 (II)	40.2	51.8	53.0	52.3	31.3	42.8
Resnik (III)	39.3	47.3	62.6	60.5	38.9	54.4
C1832	52.8	56.8	61.6	67.8	45.9	63.4
C1845	33.6	48.8	57.6	60.7	41.7	54.7
HC78-676-2	17.0	55.3	37.0	61.2	45.9	60.0
HC78-676-3	16.8	48.4	20.8	57.8	45.4	57.5
HC78-676-13	12.8	43.0	17.0	60.2	47.7	54.2
HC85-603	16.9	58.3	41.0	61.6	41.1	56.0
HC85-607	13.1	53.5	48.8	63.6	41.8	61.2
HC85-618	18.7	50.6	38.5	62.5	41.6	60.4
HC86-278	19.6	55.3	37.6	49.2	41.7	58.1
HC86-554	19.0	60.3	34.8	57.0	40.2	54.2
HM8890	48.2	61.0	65.0	61.3	41.2	54.2
K1200	39.7	56.8	58.6	64.2	43.9	57.6
LN86-3357	38.9	59.9	59.9	59.2	44.5	62.6
LN87-1744	39.4	56.7	61.1	60.8	40.8	56.9
LN87-2112	31.2	60.6	53.8	55.7	48.7	53.4
LN88-9900	18.6	58.3	55.8	59.6	45.5	72.8
LN88-9242	45.1	64.5	48.7	56.1	42.3	52.9
LN88-10534	29.4	59.3	63.2	58.5	43.0	62.1
SL89-314	53.4	53.9	61.2	70.8	48.3	62.8
U90-2226	41.6	53.3	58.6	57.8	43.0	52.9
U90-2310	41.6	57.2	62.0	59.3	38.1	54.7
U90-2434	33.8	47.9	58.6	56.6	37.2	40.0
U90-2711	32.3	60.4	60.1	54.6	40.2	44.0
C.V. (%)	27.8	9.3	14.7	5.2	5.8	8.2
L.S.D. (5%)	14.5	8.4	12.5	5.3	4.2	7.8
Row Sp. (in.)	24	24	24	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

* Data Not Included in the Mean

UNIFORM TEST III, 1992

YIELD (bu/a)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	33.9	46.1	61.5	60.9	52.0	70.8	52.8	46.1
Flyer (IV)	45.2	46.2	67.3	58.8	48.3	59.6	45.6	53.1
IA2007 (II)	25.0	40.0	56.7	61.2	49.6	65.2	44.7	44.9
Resnik (III)	40.0	48.8	59.9	57.6	47.3	59.5	41.1	51.9
C1832	48.1	46.6	64.3	62.5	50.1	64.4	46.5	54.4
C1845	46.5	44.1	61.0	60.2	46.9	66.6	38.5	46.4
HC78-676-2	38.8	46.6	45.3	55.7	42.5	67.1	41.8	39.8
HC78-676-3	36.6	48.0	47.8	53.3	51.8	67.5	46.1	47.5
HC78-676-13	30.4	38.0	48.6	49.1	40.3	68.7	42.8	38.8
HC85-603	33.7	40.9	53.7	58.2	46.7	68.1	41.2	56.7
HC85-607	31.4	39.3	60.2	62.1	51.2	70.3	45.5	52.3
HC85-618	35.0	49.1	56.3	63.8	49.5	69.9	42.3	55.8
HC86-278	34.5	41.9	52.7	58.8	46.9	68.0	50.4	42.8
HC86-554	34.3	47.1	64.6	53.7	49.8	69.2	47.2	45.6
HM8890	41.3	43.6	59.9	58.2	47.2	63.7	47.3	54.1
K1200	40.2	51.8	70.2	60.1	50.9	65.4	45.5	47.4
LN86-3357	37.6	47.8	68.6	56.2	54.5	66.4	45.1	49.4
LN87-1744	44.6	47.3	58.0	56.0	51.6	64.4	44.9	54.0
LN87-2112	39.0	51.2	69.9	53.5	43.6	57.9	44.0	41.0
LN88-9900	40.0	40.0	71.4	48.9	54.0	59.4	47.0	37.8
LN88-9242	37.0	45.8	67.8	56.4	43.0	65.7	47.2	45.6
LN88-10534	32.6	47.3	65.7	62.3	53.7	67.1	44.2	57.7
SL89-314	46.3	48.0	66.4	57.3	54.8	64.0	44.9	44.6
U90-2226	34.1	48.7	58.3	58.5	50.9	61.7	37.9	48.1
U90-2310	26.8	57.0	66.3	61.8	45.3	71.3	43.9	48.8
U90-2434	33.7	53.7	71.1	56.1	42.9	63.3	45.3	42.0
U90-2711	26.9	49.6	61.0	61.8	45.3	67.6	42.8	49.3
C.V. (%)	12.5	10.0	6.4	7.4	13.7	4.8	8.3	13.4
L.S.D. (5%)	7.6	7.7	8.3	8.6	13.3	6.3	6.1	10.9
Row Sp. (in.)	30	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4
Reps	3	3	2	3	3	3	3	3

UNIFORM TEST III, 1992

YIELD (bu/a)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	30.6	69.7	58.6	54.7	50.0
Flyer (IV)	43.7	61.8	62.0	47.6	49.1
IA2007 (II)	52.0	64.6	61.4	46.2	53.0
Resnik (III)	42.3	64.8	63.3	48.6	51.2
C1832	54.1	66.4	41.2	55.2	56.4
C1845	26.7	60.3	63.5	46.7	50.6
HC78-676-2	30.3	62.2	57.4	47.6	55.1
HC78-676-3	25.7	62.2	55.0	51.6	51.5
HC78-676-13	46.0	59.8	53.5	47.9	51.8
HC85-603	50.0	69.6	57.0	50.3	52.0
HC85-607	47.0	69.1	68.6	47.4	55.0
HC85-618	48.8	67.2	64.3	53.5	54.5
HC86-278	25.8	67.9	59.7	50.0	54.3
HC86-554	37.1	66.3	64.6	50.9	53.8
HM8890	47.3	60.6	58.9	51.9	47.7
K1200	41.9	59.7	54.7	48.5	47.4
LN86-3357	44.8	63.4	57.8	51.5	47.8
LN87-1744	49.5	60.7	59.6	53.1	43.4
LN87-2112	33.5	57.7	54.6	47.9	46.4
LN88-9900	34.5	56.4	46.8	50.7	50.4
LN88-9242	35.1	61.5	58.8	48.0	52.5
LN88-10534	44.5	59.1	57.8	50.6	54.0
SL89-314	52.2	62.6	64.0	52.1	55.3
U90-2226	49.3	60.8	59.1	49.7	42.0
U90-2310	53.4	64.5	59.1	49.5	54.9
U90-2434	42.2	57.7	56.6	48.3	51.2
U90-2711	57.6	61.5	62.0	46.8	48.0
C.V. (%)	17.0	4.8	11.0	6.7	7.0
L.S.D. (5%)	12.3	4.9	10.6	ns	5.9
Row Sp. (in.)	15	7	30	24	30
Rows/Plot	6	8	4	4	4
Reps	3	3	3	3	3

UNIFORM TEST III, 1992

YIELD RANK

Strain	Yield Rank	George-town DE	Fair-field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	11	13	3	15	2	20	10
Flyer (IV)	4	21	18	7	8	11	18
IA2007 (II)	21	20	13	10	5	1	22
Resnik (III)	15	15	23	11	9	5	27
C1832	2	11	17	4	6	6	8
C1845	18	14	4	20	1	12	19
HC78-676-2	25	2	6	27	19	26	17
HC78-676-3	26	22	15	18	21	22	4
HC78-676-13	27	27	11	19	18	23	6
HC85-603	14	25	11	21	19	24	1
HC85-607	5	6	2	5	14	27	15
HC85-618	9	16	14	14	12	25	12
HC86-278	23	10	19	8	22	21	21
HC86-554	17	19	5	24	23	16	16
HM8890	8	3	9	2	3	15	10
K1200	10	4	21	17	11	13	9
LN86-3357	5	12	16	12	24	10	2
LN87-1744	12	18	23	22	26	4	2
LN87-2112	21	1	27	25	24	18	23
LN88-9900	19	24	26	22	3	8	24
LN88-9242	16	26	20	13	16	19	4
LN88-10534	3	23	7	3	10	13	13
SL89-314	1	7	9	1	14	9	7
U90-2226	20	8	21	16	12	6	26
U90-2310	5	17	1	6	17	3	25
U90-2434	23	9	25	25	27	2	19
U90-2711	13	5	7	9	6	17	13

UNIFORM TEST III, 1992

YIELD RANK

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	18	10	18	20	18	11
Flyer (IV)	5	20	1	13	9	2
IA2007 (II)	8	21	17	26	27	26
Resnik (III)	11	26	4	11	24	18
C1832	2	12	6	2	4	3
C1845	14	23	14	10	15	16
HC78-676-2	23	15	24	8	4	9
HC78-676-3	25	24	26	18	7	13
HC78-676-13	27	27	27	12	3	19
HC85-603	24	8	21	6	20	15
HC85-607	26	18	19	4	14	7
HC85-618	21	22	22	5	17	8
HC86-278	19	15	23	27	15	10
HC86-554	20	5	25	21	22	19
HM8890	3	2	2	7	19	19
K1200	9	12	11	3	10	12
LN86-3357	12	6	10	16	8	5
LN87-1744	10	14	8	9	21	14
LN87-2112	16	3	16	24	1	22
LN88-9900	22	8	15	14	6	1
LN88-9242	4	1	20	23	13	23
LN88-10534	17	7	3	17	11	6
SL89-314	1	17	7	1	2	4
U90-2226	6	19	11	18	11	23
U90-2310	6	11	5	15	25	16
U90-2434	13	25	11	22	26	27
U90-2711	15	4	9	25	22	25

UNIFORM TEST III, 1992

YIELD RANK

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	19	18	13	8	5	2	1	17
Flyer (IV)	4	17	7	11	15	24	9	7
IA2007 (II)	27	24	21	7	13	17	16	20
Resnik (III)	8	7	17	16	16	25	25	9
C1832	1	15	12	2	11	18	7	4
C1845	2	20	14	9	18	13	26	16
HC78-676-2	11	15	27	22	26	11	23	25
HC78-676-3	14	9	26	25	6	10	8	14
HC78-676-13	24	27	25	26	27	6	20	26
HC85-603	20	23	23	14	20	7	24	2
HC85-607	23	26	16	4	8	3	10	8
HC85-618	15	6	22	1	14	4	22	3
HC86-278	16	22	24	11	18	8	2	22
HC86-554	17	14	11	23	12	5	4	18
HM8890	6	21	17	14	17	21	3	5
K1200	7	3	3	10	9	16	10	15
LN86-3357	12	11	5	19	2	14	13	10
LN87-1744	5	12	20	21	7	18	14	6
LN87-2112	10	4	4	24	23	27	18	24
LN88-9900	8	24	1	27	3	26	6	27
LN88-9242	13	19	6	18	24	15	4	18
LN88-10534	22	12	10	3	4	11	17	1
SL89-314	3	9	8	17	1	20	14	21
U90-2226	18	8	19	13	9	23	27	13
U90-2310	26	1	9	5	21	1	19	12
U90-2434	20	2	2	20	25	22	12	23
U90-2711	25	5	14	5	21	9	20	11

UNIFORM TEST III, 1992

YIELD RANK

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	23	1	16	2	19
Flyer (IV)	15	15	7	22	20
IA2007 (II)	5	9	9	27	10
Resnik (III)	16	8	6	16	15
C1832	2	6	27	1	1
C1845	25	21	5	26	17
HC78-676-2	24	13	19	22	3
HC78-676-3	27	13	22	7	14
HC78-676-13	12	22	25	20	13
HC85-603	6	2	20	12	12
HC85-607	11	3	1	24	4
HC85-618	9	5	3	3	6
HC86-278	26	4	10	13	7
HC86-554	19	7	2	9	9
HM8890	10	20	14	6	23
K1200	18	23	23	17	24
LN86-3357	13	11	17	8	22
LN87-1744	7	19	11	4	26
LN87-2112	22	25	24	20	25
LN88-9900	21	27	26	10	18
LN88-9242	20	16	15	19	11
LN88-10534	14	24	17	11	8
SL89-314	4	12	4	5	2
U90-2226	8	18	12	14	27
U90-2310	3	10	12	15	5
U90-2434	17	25	21	18	15
U90-2711	1	16	7	25	21

UNIFORM TEST III, 1992

MATURITY (date)

Strain	Mean 19 Tests	George-town DE	Fair-field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	4.7				6	3	4
Flyer (IV)	7.4				7	8	6
IA2007 (II)	-2.8				-5	-3	-1
Resnik (III)	09/19				09/22	08/27	09/17
C1832	5.1				5	5	5
C1845	4.3				4	3	4
HC78-676-2	4.0				3	-1	4
HC78-676-3	4.7				7	1	4
HC78-676-13	4.2				5	-1	5
HC85-603	4.3				5	2	4
HC85-607	3.9				5	-3	5
HC85-618	4.3				5	-3	6
HC86-278	4.9				4	-1	3
HC86-554	3.2				4	-1	4
HM8890	4.2				4	1	2
K1200	0.7				0	0	1
LN86-3357	5.8				6	5	6
LN87-1744	4.0				4	3	4
LN87-2112	6.3				6	7	7
LN88-9900	5.1				5	6	6
LN88-9242	-0.8				-1	-1	-1
LN88-10534	-0.2				-2	2	0
SL89-314	5.3				6	7	5
U90-2226	-0.3				-4	0	-1
U90-2310	-0.4				-1	-3	-1
U90-2434	-1.2				-4	-1	-1
U90-2711	-1.2				-5	-1	0
Date Planted	05/13				05/12	04/29	05/07
Days to Mature	129.6				133	120	133

UNIFORM TEST III, 1992

MATURITY (date)

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	2	6	8	3		
Flyer (IV)	5	9	11	7		
IA2007 (II)	-5	-2	-4	-4		
Resnik (III)	09/27	09/17	09/19	09/18		
C1832	2	4	8	7		
C1845	4	4	8	4		
HC78-676-2	0	3	8	5		
HC78-676-3	3	3	5	3		
HC78-676-13	5	1	4	5		
HC85-603	2	6	7	2		
HC85-607	1	3	8	2		
HC85-618	1	2	8	1		
HC86-278	4	5	11	1		
HC86-554	1	4	4	1		
HM8890	5	9	8	2		
K1200	4	1	2	-2		
LN86-3357	4	8	8	5		
LN87-1744	4	6	6	2		
LN87-2112	5	8	9	7		
LN88-9900	5	7	10	5		
LN88-9242	-1	2	2	-3		
LN88-10534	-2	0	5	-1		
SL89-314	4	6	7	9		
U90-2226	0	0	-1	-3		
U90-2310	-3	0	2	2		
U90-2434	-2	-3	1	-2		
U90-2711	-2	-1	3	-2		
Date Planted	05/12	05/08	05/27	05/21		
Days to Mature	138	132	115	120		

UNIFORM TEST III, 1992

MATURITY (date)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	4	0	2	6		8	9	5
Flyer (IV)	7	3	4	7		8	10	5
IA2007 (II)	-5	-3	-1	-1		-3	-3	-5
Resnik (III)	09/19	09/04	09/15	10/03		09/30	09/25	09/26
C1832	7	1	3	4		5	6	6
C1845	7	0	1	4		7	4	4
HC78-676-2	5	1	3	6		7	6	2
HC78-676-3	6	1	3	6		7	8	3
HC78-676-13	5	1	3	6		8	4	3
HC85-603	2	2	3	6		7	5	4
HC85-607	2	1	4	6		7	4	4
HC85-618	4	1	4	7		8	5	8
HC86-278	5	1	3	7		9	8	4
HC86-554	2	0	4	3		4	9	1
HM8890	3	0	3	6		5	5	3
K1200	0	-2	0	1		3	2	2
LN86-3357	1	0	3	7		8	9	1
LN87-1744	3	2	2	4		4	6	5
LN87-2112	7	3	6	7		8	6	2
LN88-9900	3	1	5	6		9	7	1
LN88-9242	-3	-1	0	-2		-2	0	0
LN88-10534	-4	-1	-1	2		0	0	-5
SL89-314	7	2	2	6		6	5	4
U90-2226	-2	-1	0	0		1	5	-2
U90-2310	-4	-1	1	0		3	1	0
U90-2434	-4	-1	1	-1		-1	-1	0
U90-2711	-4	-2	0	-1		0	0	-2
Date Planted	05/28	04/29	05/05	05/09		05/11	06/10	05/15
Days to Mature	114	128	133	147		142	107	134

UNIFORM TEST III, 1992

MATURITY (date)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	5	5	1	6	6
Flyer (IV)	6	12	7	9	8
IA2007 (II)	-3	-1	-1	-7	4
Resnik (III)	09/15	09/16	09/27	09/22	09/26
C1832	3	8	8	2	5
C1845	4	8	4	1	6
HC78-676-2	5	6	0	9	5
HC78-676-3	5	7	2	9	6
HC78-676-13	7	8	1	7	5
HC85-603	4	7	1	7	6
HC85-607	4	10	1	4	6
HC85-618	4	10	2	3	5
HC86-278	3	11	2	6	5
HC86-554	4	6	2	4	5
HM8890	3	8	4	1	7
K1200	3	0	-3	-1	5
LN86-3357	3	11	10	3	9
LN87-1744	5	3	4	3	7
LN87-2112	6	10	5	2	8
LN88-9900	6	5	3	1	7
LN88-9242	0	-1	0	-4	1
LN88-10534	-1	-1	-1	-1	6
SL89-314	3	6	3	4	6
U90-2226	0	0	1	-2	4
U90-2310	-3	-1	1	-4	1
U90-2434	-3	-1	-2	-3	3
U90-2711	0	0	-1	-4	1
Date Planted	05/07	05/05	05/08	05/20	05/13
Days to Mature	131	134	142	125	136

UNIFORM TEST III, 1992

LODGING (score)

Strain	Mean 25 Tests	George-town DE	Fair field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	1.4	1.3	1.4	1.6	2.5	1.0	2.0
Flyer (IV)	1.3	1.3	1.8	1.3	1.5	1.0	1.3
IA2007 (II)	1.3	1.3	1.4	1.1	1.6	1.0	2.0
Resnik (III)	1.2	1.7	1.5	1.2	1.4	1.0	1.0
C1832	1.5	1.3	1.8	1.3	1.5	1.0	2.3
C1845	1.2	1.7	1.4	1.1	1.3	1.0	1.0
HC78-676-2	1.3	1.3	1.2	1.2	2.1	1.0	1.3
HC78-676-3	1.4	1.7	1.5	1.3	2.1	1.0	1.7
HC78-676-13	1.3	1.3	1.3	1.3	1.8	1.0	2.0
HC85-603	1.3	1.3	1.3	1.2	1.6	1.0	1.0
HC85-607	1.3	1.7	1.4	1.4	1.4	1.0	1.3
HC85-618	1.5	1.7	1.5	1.3	1.9	1.0	1.7
HC86-278	1.3	1.7	1.3	1.3	1.7	1.0	1.7
HC86-554	1.3	1.7	1.4	1.3	1.7	1.0	1.3
HM8890	1.4	2.0	1.8	1.3	1.6	1.0	2.0
K1200	1.6	2.3	2.0	1.3	1.6	1.0	2.7
LN86-3357	1.3	1.7	1.6	1.3	1.5	1.0	1.0
LN87-1744	1.4	2.0	2.7	1.2	1.6	1.0	2.0
LN87-2112	1.3	1.3	2.2	1.2	1.6	1.0	1.3
LN88-9900	1.7	1.0	2.3	1.5	2.6	1.0	2.7
LN88-9242	1.5	1.7	1.6	1.4	1.8	1.0	2.0
LN88-10534	1.3	1.7	1.6	1.2	1.6	1.0	1.0
SL89-314	1.6	2.0	1.7	1.2	1.7	1.0	2.0
U90-2226	1.4	2.0	2.3	1.1	1.5	1.0	1.3
U90-2310	2.0	2.3	2.3	1.4	2.9	1.0	3.3
U90-2434	1.4	1.7	1.6	1.3	1.7	1.0	2.3
U90-2711	1.4	2.0	1.8	1.2	1.3	1.0	2.0

UNIFORM TEST III, 1992

LODGING (score)

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	1.0	1.3	1.0	1.0	1.0	1.0
Flyer (IV)	1.0	1.7	1.3	1.0	1.1	1.0
IA2007 (II)	1.0	2.0	1.0	1.0	1.0	1.0
Resnik (III)	1.0	1.0	1.0	1.0	1.0	1.0
C1832	1.0	2.2	1.0	1.3	1.0	1.0
C1845	1.0	1.3	1.0	1.0	1.1	1.0
HC78-676-2	1.0	1.0	1.0	1.0	1.0	1.0
HC78-676-3	1.0	1.0	1.0	1.0	1.1	1.0
HC78-676-13	1.0	1.0	1.0	1.0	1.1	1.0
HC85-603	1.0	1.0	1.0	1.0	1.0	1.0
HC85-607	1.0	1.0	1.0	1.0	1.9	1.0
HC85-618	1.0	1.2	1.0	1.3	1.2	1.0
HC86-278	1.0	1.0	1.0	1.0	1.0	1.0
HC86-554	1.0	1.0	1.0	1.0	1.1	1.0
HM8890	1.3	1.7	1.2	1.0	1.0	1.0
K1200	1.0	3.0	1.0	1.0	1.0	1.3
LN86-3357	1.0	1.5	1.2	1.7	1.9	1.0
LN87-1744	1.0	1.5	1.0	1.0	1.0	1.3
LN87-2112	1.2	1.7	1.0	1.3	1.0	1.0
LN88-9900	1.0	2.7	1.3	1.7	1.2	1.7
LN88-9242	1.0	2.2	1.3	1.3	1.0	1.3
LN88-10534	1.0	1.3	1.3	1.0	1.7	1.0
SL89-314	1.0	2.5	1.7	1.7	1.3	1.0
U90-2226	1.0	2.3	1.0	1.0	1.0	1.3
U90-2310	1.0	3.7	1.7	2.3	1.9	1.0
U90-2434	1.0	2.0	1.3	1.7	1.0	1.0
U90-2711	1.0	1.5	1.2	1.7	1.1	1.0

UNIFORM TEST III, 1992

LODGING (score)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.5
Flyer (IV)	1.8	1.0	1.0	1.0	1.0	1.0	1.3	1.6
IA2007 (II)	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.2
Resnik (III)	2.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5
C1832	2.0	1.0	1.0	1.0	1.0	1.0	1.7	1.8
C1845	1.5	1.0	1.0	1.0	1.0	1.0	1.3	1.4
HC78-676-2	1.0	1.0	1.0	1.0	1.0	1.0	3.7	1.4
HC78-676-3	1.3	1.0	1.0	1.0	1.0	1.0	4.0	1.4
HC78-676-13	1.0	1.0	1.0	1.0	1.0	1.0	3.3	1.3
HC85-603	1.0	1.0	1.0	1.0	1.0	1.0	3.3	1.5
HC85-607	1.0	1.0	1.0	1.0	1.0	1.0	3.3	1.6
HC85-618	1.5	1.0	1.0	1.0	1.0	1.0	4.7	2.2
HC86-278	1.0	1.0	1.0	1.0	1.0	1.0	3.3	1.2
HC86-554	1.0	1.0	1.0	1.0	1.0	1.0	3.3	1.4
HM8890	2.2	1.0	1.0	1.0	1.0	1.3	1.3	1.5
K1200	2.2	1.0	1.0	1.0	1.0	1.3	2.0	1.2
LN86-3357	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.8
LN87-1744	1.5	1.0	1.0	1.0	1.0	1.0	1.3	1.6
LN87-2112	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3
LN88-9900	1.8	1.0	1.0	1.0	1.0	1.7	2.0	1.4
LN88-9242	2.2	1.0	1.0	1.0	1.0	1.0	2.7	1.5
LN88-10534	1.3	1.0	1.0	1.0	1.0	1.0	2.3	1.6
SL89-314	2.2	1.0	1.0	1.0	1.0	1.0	2.3	1.6
U90-2226	1.5	1.0	1.0	1.0	1.0	1.0	2.7	1.2
U90-2310	2.2	1.0	1.0	1.0	1.0	2.0	3.3	1.7
U90-2434	2.0	1.0	1.0	1.0	1.0	1.0	1.7	1.3
U90-2711	2.0	1.0	1.0	1.0	1.0	1.0	2.3	1.3

UNIFORM TEST III, 1992

LODGING (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	1.0	1.5	1.5	1.0	2.0
Flyer (IV)	1.1	1.2	2.4	1.0	1.7
IA2007 (II)	1.1	1.2	2.3	1.0	1.3
Resnik (III)	1.0	1.2	1.7	1.0	1.0
C1832	1.1	1.7	3.2	1.0	2.0
C1845	1.0	1.5	1.7	1.0	1.3
HC78-676-2	1.0	1.2	1.7	1.0	2.0
HC78-676-3	1.0	1.5	1.9	1.0	2.0
HC78-676-13	1.0	1.0	1.5	1.0	2.0
HC85-603	1.0	1.5	1.6	1.0	2.0
HC85-607	1.0	1.0	1.5	1.0	2.0
HC85-618	1.0	1.2	1.7	1.0	2.0
HC86-278	1.0	1.2	1.7	1.0	2.0
HC86-554	1.0	1.0	1.6	1.0	2.0
HM8890	1.2	1.3	2.1	1.0	2.0
K1200	1.0	2.7	2.3	1.0	2.0
LN86-3357	1.1	1.2	2.2	1.0	1.3
LN87-1744	1.0	1.3	1.9	1.0	2.0
LN87-2112	1.0	1.3	2.0	1.0	2.7
LN88-9900	1.0	2.3	2.4	1.0	2.7
LN88-9242	1.0	1.7	2.5	1.0	2.0
LN88-10534	1.1	1.7	1.8	1.0	2.0
SL89-314	1.1	1.7	2.6	1.0	2.3
U90-2226	1.1	1.5	1.9	1.0	1.7
U90-2310	1.4	2.8	3.8	1.0	2.3
U90-2434	1.1	1.5	2.2	1.0	2.0
U90-2711	1.2	1.3	2.1	1.0	2.0

UNIFORM TEST III, 1992

PLANT HEIGHT (inches)

Strain	Mean 25 Tests	George-town DE	Fair field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	24	13	34	34	28	19	27
Flyer (IV)	33	19	43	37	39	31	41
IA2007 (II)	32	16	42	39	36	28	39
Resnik (III)	32	19	42	38	38	30	39
C1832	33	19	42	38	42	32	41
C1845	31	17	39	35	41	30	40
HC78-676-2	23	13	31	33	26	19	27
HC78-676-3	23	14	33	34	27	17	26
HC78-676-13	22	13	29	33	27	17	25
HC85-603	24	15	32	34	30	16	28
HC85-607	24	15	34	34	32	19	27
HC85-618	25	17	34	34	32	18	27
HC86-278	23	12	34	34	29	17	26
HC86-554	25	14	35	35	31	20	27
HM8890	32	20	42	37	38	31	39
K1200	32	20	41	36	37	31	40
LN86-3357	36	21	43	40	42	32	44
LN87-1744	32	17	41	36	38	31	37
LN87-2112	33	22	40	37	40	32	41
LN88-9900	34	18	47	39	41	34	44
LN88-9242	33	16	40	38	38	31	41
LN88-10534	34	18	44	38	42	33	42
SL89-314	36	21	44	39	42	34	45
U90-2226	29	16	38	34	37	27	36
U90-2310	34	19	43	35	40	31	41
U90-2434	33	20	40	37	39	30	39
U90-2711	32	20	41	37	38	30	39

UNIFORM TEST III, 1992

PLANT HEIGHT (inches)

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	13	29	20	21	27	22
Flyer (IV)	26	37	38	35	30	31
IA2007 (II)	25	39	34	31	30	26
Resnik (III)	23	37	36	33	31	31
C1832	25	37	35	35	34	31
C1845	22	36	33	30	29	27
HC78-676-2	13	27	18	19	25	20
HC78-676-3	14	28	16	20	25	20
HC78-676-13	12	24	14	21	30	20
HC85-603	14	28	18	24	28	21
HC85-607	14	28	19	22	25	23
HC85-618	15	29	19	23	28	22
HC86-278	15	29	16	21	25	21
HC86-554	14	29	17	23	30	21
HM8890	25	38	35	35	30	28
K1200	21	38	34	33	32	31
LN86-3357	25	40	37	37	33	34
LN87-1744	21	38	35	33	29	28
LN87-2112	23	38	34	32	34	31
LN88-9900	20	40	36	33	35	36
LN88-9242	25	39	36	34	30	32
LN88-10534	21	38	40	36	34	32
SL89-314	27	41	38	37	34	34
U90-2226	22	34	34	31	29	30
U90-2310	25	39	39	40	33	32
U90-2434	22	37	37	37	35	31
U90-2711	22	39	38	33	30	27

UNIFORM TEST III, 1992

PLANT HEIGHT (inches)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	14	19	19	25	23	33	23	23
Flyer (IV)	23	32	34	34	33	37	29	29
IA2007 (II)	16	29	33	34	32	40	28	26
Resnik (III)	21	31	36	34	32	36	30	28
C1832	25	32	37	32	31	36	29	33
C1845	22	28	33	32	30	33	29	27
HC78-676-2	13	20	18	23	23	31	23	24
HC78-676-3	13	21	21	22	24	27	24	23
HC78-676-13	12	19	20	20	21	29	22	21
HC85-603	14	18	23	26	26	30	24	24
HC85-607	14	19	20	26	26	25	23	26
HC85-618	15	24	23	28	28	27	25	27
HC86-278	14	19	20	23	25	26	26	23
HC86-554	15	22	27	22	26	27	26	27
HM8890	20	29	31	34	30	36	27	26
K1200	23	34	38	33	34	36	28	27
LN86-3357	24	33	39	38	38	45	34	30
LN87-1744	22	30	35	32	32	35	28	31
LN87-2112	23	33	42	32	33	35	30	28
LN88-9900	21	31	40	31	37	37	31	25
LN88-9242	23	31	35	32	30	41	32	27
LN88-10534	20	30	35	37	34	41	31	35
SL89-314	25	34	42	39	36	40	33	32
U90-2226	18	29	35	30	30	33	24	24
U90-2310	20	33	39	36	31	42	27	30
U90-2434	21	31	38	35	32	38	30	27
U90-2711	19	30	36	34	33	37	28	26

UNIFORM TEST III, 1992

PLANT HEIGHT (inches)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	13	24	25	29	24
Flyer (IV)	28	36	38	29	34
IA2007 (II)	27	32	39	28	34
Resnik (III)	25	34	36	28	32
C1832	29	34	39	29	34
C1845	23	32	34	26	28
HC78-676-2	12	23	26	27	25
HC78-676-3	14	24	26	26	25
HC78-676-13	14	26	21	24	24
HC85-603	17	25	27	26	29
HC85-607	17	26	24	25	29
HC85-618	15	24	27	26	30
HC86-278	13	25	22	24	27
HC86-554	14	24	22	25	29
HM8890	27	33	39	28	32
K1200	25	33	36	30	32
LN86-3357	29	36	41	33	37
LN87-1744	24	33	37	26	34
LN87-2112	24	34	35	29	33
LN88-9900	25	36	35	32	34
LN88-9242	24	36	41	29	33
LN88-10534	27	37	42	29	35
SL89-314	30	38	40	31	39
U90-2226	22	31	31	24	29
U90-2310	28	35	38	32	34
U90-2434	27	34	38	30	34
U90-2711	32	33	39	28	31

UNIFORM TEST III, 1992

SEED QUALITY (score)

Strain	Mean 24 Tests	George-town DE	Fair field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	1.5	1.0	1.7	1.3	1.4	1.2	1.5
Flyer (IV)	1.6	2.7	1.5	1.3	1.6	1.2	1.4
IA2007 (II)	2.2	5.7	1.4	1.4	1.6	1.2	1.5
Resnik (III)	1.6	3.3	1.5	1.6	1.6	1.2	1.3
C1832	1.8	2.7	1.7	1.3	1.9	1.2	1.7
C1845	1.7	3.0	1.3	1.4	1.5	1.2	1.3
HC78-676-2	1.8	2.3	1.5	1.2	1.6	1.2	1.4
HC78-676-3	1.7	2.3	1.6	1.5	1.3	1.2	1.4
HC78-676-13	1.8	2.3	1.3	1.4	1.2	1.2	1.6
HC85-603	1.7	2.0	1.2	1.2	2.0	1.2	1.5
HC85-607	1.6	3.0	1.5	1.3	1.2	1.2	1.5
HC85-618	1.7	3.0	1.8	1.2	1.4	1.2	1.5
HC86-278	1.6	2.3	1.7	1.4	1.3	1.2	1.5
HC86-554	1.7	3.3	1.3	1.3	1.4	1.2	1.5
HM8890	1.8	2.3	1.3	1.1	1.1	1.2	1.3
K1200	1.5	3.7	1.3	1.2	1.2	1.2	1.2
LN86-3357	1.7	4.3	1.4	1.4	1.9	1.2	1.4
LN87-1744	1.8	2.7	1.6	1.2	2.3	1.2	1.5
LN87-2112	1.9	6.0	1.4	1.4	2.2	1.3	1.5
LN88-9900	1.8	2.3	1.2	1.4	1.3	1.2	1.8
LN88-9242	1.9	3.0	1.5	1.2	1.5	1.2	2.0
LN88-10534	1.9	4.3	1.3	1.1	2.1	1.2	1.3
SL89-314	1.7	2.3	1.4	1.1	1.8	1.2	1.4
U90-2226	1.7	3.7	1.2	1.3	1.2	1.2	1.3
U90-2310	2.3	6.7	1.5	1.4	1.2	1.2	1.5
U90-2434	2.4	6.7	1.7	1.3	1.9	1.3	1.7
U90-2711	1.8	5.7	1.3	1.4	1.3	1.2	1.5

UNIFORM TEST III, 1992

SEED QUALITY (score)

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	1.0	1.0	1.0	2.7	2.0	2.0
Flyer (IV)	1.0	1.0	1.0	2.4	2.0	2.0
IA2007 (II)	1.0	1.0	1.5	4.5	3.0	4.0
Resnik (III)	1.0	1.0	1.0	1.8	2.0	2.0
C1832	1.0	1.0	1.0	2.1	3.0	2.0
C1845	1.0	1.0	1.5	2.4	2.0	3.0
HC78-676-2	1.0	1.0	1.0	1.8	3.0	3.0
HC78-676-3	1.0	1.0	1.0	1.8	2.0	2.0
HC78-676-13	1.0	1.0	1.0	1.8	3.0	3.0
HC85-603	1.0	1.0	1.0	2.7	2.0	3.0
HC85-607	1.0	1.0	1.0	2.1	2.0	2.0
HC85-618	1.0	1.0	1.0	2.4	2.0	2.0
HC86-278	1.0	1.0	1.0	1.5	2.0	2.0
HC86-554	1.0	1.0	1.0	2.1	2.0	3.0
HM8890	1.0	1.0	1.0	2.7	2.0	4.0
K1200	1.0	1.0	1.0	2.4	2.0	2.0
LN86-3357	1.0	1.0	1.0	1.5	2.0	3.0
LN87-1744	1.0	1.0	1.0	3.0	3.0	3.0
LN87-2112	1.0	1.0	1.0	2.4	2.0	3.0
LN88-9900	1.0	1.0	1.0	2.4	3.0	4.0
LN88-9242	1.0	1.0	1.0	3.3	2.0	3.0
LN88-10534	1.0	1.0	1.5	2.4	2.0	3.0
SL89-314	1.0	1.0	1.0	3.0	2.0	3.0
U90-2226	1.0	1.0	1.0	3.3	3.0	3.0
U90-2310	1.0	1.0	1.5	2.7	4.0	4.0
U90-2434	1.0	1.0	1.5	4.2	3.0	4.0
U90-2711	1.0	1.0	1.0	0.9	2.0	3.0

UNIFORM TEST III, 1992

SEED QUALITY (score)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	1.5	2.0		1.3	1.0	1.0	1.0	1.2
Flyer (IV)	1.0	2.0		1.0	1.0	1.0	1.0	2.2
IA2007 (II)	2.0	3.0		1.0	1.7	1.7	2.0	2.0
Resnik (III)	1.0	2.0		1.0	1.0	1.0	1.3	1.4
C1832	1.0	3.0		1.0	1.7	1.0	1.0	2.0
C1845	1.2	2.0		1.0	1.0	1.0	1.7	1.3
HC78-676-2	1.7	2.0		1.0	1.3	1.3	1.7	2.6
HC78-676-3	2.0	2.0		1.0	1.0	1.0	1.7	2.7
HC78-676-13	2.3	3.0		1.0	1.3	1.0	2.0	2.8
HC85-603	2.0	3.0		1.0	1.3	1.0	1.3	1.3
HC85-607	2.0	2.0		1.3	1.0	1.0	1.0	1.1
HC85-618	2.0	3.0		1.3	1.0	1.0	1.0	1.4
HC86-278	1.3	3.0		1.0	1.0	1.0	1.7	1.2
HC86-554	2.0	2.0		1.0	1.7	1.3	1.0	1.5
HM8890	1.8	3.0		1.3	2.0	1.0	1.3	1.4
K1200	1.0	2.0		1.3	1.0	1.3	1.0	2.0
LN86-3357	1.0	2.0		1.0	1.0	1.0	1.0	1.8
LN87-1744	1.0	2.0		1.0	1.0	2.0	1.0	1.9
LN87-2112	1.0	3.0		1.0	1.0	1.3	1.0	2.1
LN88-9900	2.0	2.0		1.0	1.0	1.3	1.7	2.3
LN88-9242	2.2	1.0		1.0	1.7	1.7	1.3	2.0
LN88-10534	2.2	2.0		1.0	1.7	1.7	1.3	1.9
SL89-314	1.2	2.0		1.3	1.0	1.0	1.0	1.4
U90-2226	1.8	2.0		1.0	1.0	1.0	1.0	1.3
U90-2310	3.0	3.0		1.0	1.7	2.0	2.0	1.6
U90-2434	2.8	3.0		1.0	2.0	2.0	2.0	2.0
U90-2711	1.3	3.0		1.0	1.0	1.3	1.0	1.3

UNIFORM TEST III, 1992

SEED QUALITY (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	1.0	1.5	1.6	2.5	2.0
Flyer (IV)	1.1	2.5	1.4	2.5	2.7
IA2007 (II)	1.7	1.5	2.2	3.0	2.7
Resnik (III)	1.0	1.5	1.9	2.0	2.3
C1832	1.1	3.0	1.5	2.5	3.0
C1845	1.1	2.0	2.8	2.5	2.3
HC78-676-2	1.4	1.5	1.8	3.5	2.0
HC78-676-3	1.4	1.5	2.4	3.5	2.3
HC78-676-13	1.0	1.5	1.8	3.0	2.0
HC85-603	1.0	1.5	1.5	2.0	2.3
HC85-607	1.1	1.5	1.7	2.0	2.3
HC85-618	1.1	1.5	2.0	3.0	2.3
HC86-278	1.1	1.5	1.9	2.5	2.3
HC86-554	1.2	1.5	1.5	2.5	2.3
HM8890	1.3	2.0	2.5	2.0	2.7
K1200	1.1	1.5	1.5	1.5	2.3
LN86-3357	1.0	2.0	1.9	2.0	2.7
LN87-1744	1.0	2.5	2.1	2.0	3.3
LN87-2112	1.0	2.5	1.6	2.5	2.3
LN88-9900	1.2	2.0	2.0	2.0	2.7
LN88-9242	1.3	2.0	3.0	3.0	3.0
LN88-10534	1.2	1.5	2.0	2.5	2.7
SL89-314	1.0	1.5	2.7	2.5	3.0
U90-2226	1.0	1.5	1.6	2.5	3.0
U90-2310	1.4	2.0	2.5	3.0	3.3
U90-2434	1.6	2.5	2.2	3.0	3.0
U90-2711	1.0	2.5	2.2	2.0	2.7

UNIFORM TEST III, 1992

SEED SIZE (g/100)

Strain	Mean 23 Tests	George-town DE	Fair field IA	Tingley IA	Winter-set IA	Ridg-way IL	Urbana IL
Charleston (dtl)	15.7		15.7	14.4	14.2	13.6	17.1
Flyer (IV)	15.4		15.5	15.0	15.1	10.8	17.0
IA2007 (II)	17.3		16.6	15.8	16.8	14.4	19.3
Resnik (III)	15.5		15.1	15.2	15.3	11.9	17.1
C1832	16.0		15.8	15.4	15.4	11.2	18.7
C1845	17.2		16.8	15.8	16.8	12.5	19.1
HC78-676-2	15.2		14.8	13.6	13.8	11.8	16.5
HC78-676-3	15.8		15.1	14.8	14.2	12.9	17.7
HC78-676-13	15.7		15.4	15.2	14.2	13.3	17.5
HC85-603	16.1		15.5	14.6	14.4	12.0	19.2
HC85-607	15.8		15.5	15.5	15.2	10.7	19.6
HC85-618	16.7		16.1	16.4	15.2	11.9	20.4
HC86-278	15.7		15.5	14.9	14.4	11.6	16.9
HC86-554	17.2		17.4	15.9	16.2	12.9	19.3
HM8890	17.4		17.4	17.1	16.6	12.3	20.1
K1200	14.9		17.4	13.0	13.7	11.8	18.0
LN86-3357	14.0		13.9	13.4	12.6	11.0	16.3
LN87-1744	17.5		18.0	14.8	16.3	13.0	21.2
LN87-2112	14.9		15.5	12.8	14.6	11.6	17.4
LN88-9900	15.2		15.0	12.8	14.0	12.6	17.0
LN88-9242	17.3		17.5	16.4	16.6	12.2	21.0
LN88-10534	15.4		14.6	15.0	14.2	12.3	19.1
SL89-314	15.6		16.0	15.2	14.9	11.4	17.5
U90-2226	14.5		14.5	14.4	13.8	11.5	16.4
U90-2310	18.0		18.0	17.0	17.2	13.9	19.7
U90-2434	18.0		17.6	16.8	16.6	14.4	20.8
U90-2711	16.1		16.0	16.0	15.7	11.6	20.0

UNIFORM TEST III, 1992

SEED SIZE (g/100)

Strain	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS
Charleston (dtl)	17.5	14.8	17.0	15.6	12.8	15.1
Flyer (IV)	16.0	14.1	16.4	16.8	15.1	16.2
IA2007 (II)	17.0	16.4	17.6	15.6	14.3	18.3
Resnik (III)	15.8	14.4	16.1	15.6	14.5	15.5
C1832	17.3	13.8	17.3	15.3	14.5	16.6
C1845	18.9	15.9	19.2	17.1	15.1	18.4
HC78-676-2	17.7	14.1	15.1	14.7	13.7	16.3
HC78-676-3	17.3	14.7	15.5	16.5	14.6	15.8
HC78-676-13	18.0	14.9	16.7	16.8	13.6	15.7
HC85-603	15.7	14.8	16.0	18.3	13.0	17.4
HC85-607	16.0	14.1	16.6	15.6	13.5	15.7
HC85-618	17.5	14.6	16.4	17.4	13.9	16.5
HC86-278	18.6	13.9	16.6	13.5	13.2	15.5
HC86-554	18.4	16.7	17.1	17.4	14.8	17.7
HM8890	18.4	17.8	19.4	16.5	15.2	17.4
K1200	14.3	13.2	14.7	16.2	12.5	15.1
LN86-3357	14.8	13.2	15.1	14.1	13.3	16.6
LN87-1744	17.7	17.5	16.9	18.9	15.6	17.5
LN87-2112	15.1	14.8	15.9	14.1	14.1	15.8
LN88-9900	15.3	15.0	18.2	16.2	14.1	16.7
LN88-9242	18.2	17.9	17.7	16.5	14.8	16.9
LN88-10534	14.6	13.5	18.2	15.9	13.2	17.1
SL89-314	16.0	14.2	16.2	17.1	15.1	16.3
U90-2226	14.6	13.2	14.8	14.4	12.8	14.7
U90-2310	17.7	17.4	19.6	18.3	14.4	20.1
U90-2434	18.4	16.4	18.2	20.1	15.0	19.3
U90-2711	16.8	16.1	15.9	13.8	14.6	16.9

UNIFORM TEST III, 1992

SEED SIZE (g/100)

Strain	Queens-town MD	Colum-bia MO	Grand Pass MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	16.4	14.0		16.4	15.9	17.3	16.7	14.8
Flyer (IV)	15.4	12.0		16.7	15.3	17.0	15.3	15.2
IA2007 (II)	18.4	15.0		19.6	17.0	20.8	18.3	17.7
Resnik (III)	15.6	13.0		17.1	15.6	17.2	15.7	16.6
C1832	16.4	12.0		18.1	15.9	18.4	15.7	18.3
C1845	18.3	14.5		18.5	17.6	19.7	15.3	17.5
HC78-676-2	15.1	14.5		16.3	14.4	17.1	16.0	14.8
HC78-676-3	15.8	16.0		17.1	16.2	17.7	16.3	15.9
HC78-676-13	15.2	16.0		16.8	15.0	17.1	15.7	15.2
HC85-603	15.9	16.0		16.6	15.5	17.5	15.0	16.2
HC85-607	15.1	14.0		17.9	15.8	18.3	15.0	16.1
HC85-618	15.8	17.0		17.9	16.0	19.2	16.3	17.6
HC86-278	15.7	17.0		16.7	15.4	17.1	16.7	15.1
HC86-554	16.1	14.5		17.5	17.9	19.4	19.7	16.0
HM8890	17.2	13.5		19.1	16.3	19.9	18.3	18.8
K1200	15.7	14.0		16.5	14.8	16.6	15.0	15.6
LN86-3357	13.7	11.5		14.8	14.8	15.5	14.3	14.0
LN87-1744	18.2	15.5		19.2	16.8	20.3	17.3	17.4
LN87-2112	14.5	13.0		15.6	14.2	16.0	15.7	15.0
LN88-9900	15.0	13.0		17.9	15.7	17.1	16.7	13.1
LN88-9242	17.1	13.5		19.0	16.1	19.7	18.7	17.3
LN88-10534	13.9	13.5		17.9	15.6	17.5	15.3	15.4
SL89-314	15.0	12.0		17.2	15.8	17.6	16.3	14.8
U90-2226	14.2	13.0		16.2	14.3	16.9	13.3	14.9
U90-2310	17.1	17.5		20.4	18.3	20.6	17.3	18.6
U90-2434	18.5	17.0		20.4	17.9	19.5	20.0	18.8
U90-2711	13.8	15.5		18.1	15.6	18.0	17.3	16.7

UNIFORM TEST III, 1992

SEED SIZE (g/100)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
Charleston (dtl)	14.1	15.2	16.8	17.4	15.7
Flyer (IV)	13.4	14.8	18.1	15.7	14.7
IA2007 (II)	16.3	17.0	19.8	17.6	17.0
Resnik (III)	13.6	15.3	17.8	15.5	15.0
C1832	14.0	15.4	18.7	15.9	15.7
C1845	15.9	17.4	18.8	17.5	17.3
HC78-676-2	12.8	15.0	16.3	17.6	14.3
HC78-676-3	14.1	15.3	16.6	17.1	15.0
HC78-676-13	14.3	15.2	16.3	17.2	15.3
HC85-603	13.4	16.1	19.0	19.7	15.3
HC85-607	14.4	16.5	17.6	16.4	16.0
HC85-618	14.0	16.7	19.0	17.6	17.0
HC86-278	13.2	15.0	19.1	16.6	15.7
HC86-554	15.1	17.7	19.2	18.8	18.3
HM8890	15.0	17.1	21.2	17.0	15.7
K1200	13.7	13.3	16.4	16.3	14.7
LN86-3357	12.8	12.7	14.7	13.3	14.0
LN87-1744	15.6	17.7	20.1	18.3	16.7
LN87-2112	14.1	14.4	16.2	16.7	14.3
LN88-9900	14.8	14.6	15.7	14.9	14.7
LN88-9242	15.2	17.7	20.6	18.2	17.7
LN88-10534	13.3	13.7	17.4	15.9	15.7
SL89-314	14.4	15.3	18.9	15.9	15.3
U90-2226	13.2	14.8	16.4	15.9	14.3
U90-2310	15.8	17.0	20.8	17.4	17.0
U90-2434	16.0	16.3	18.6	19.3	17.0
U90-2711	15.0	16.0	19.5	16.3	15.0

UNIFORM TEST III, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Charleston (dtl)	41.0	40.3	41.8	41.0	41.0
Flyer (IV)	41.2	41.2	41.3	41.5	40.8
IA2007 (II)	40.1	39.5	40.3	40.5	40.0
Resnik (III)	41.7	41.2	41.7	43.0	40.8
C1832	41.2	41.5	41.5	41.5	40.1
C1845	40.6	40.7	40.5	41.7	39.3
HC78-676-2	40.7	40.1	40.9	41.7	40.1
HC78-676-3	41.0	40.2	41.6	41.4	40.6
HC78-676-13	41.3	40.6	41.5	42.2	41.0
HC85-603	40.3	39.5	40.3	41.3	40.0
HC85-607	39.6	39.1	40.3	40.0	39.1
HC85-618	40.6	39.7	40.8	41.3	40.6
HC86-278	42.0	41.4	43.0	42.4	41.3
HC86-554	40.9	40.4	41.6	41.6	39.8
HM8890	41.8	42.0	42.5	42.0	40.6
K1200	39.5	39.0	38.9	41.6	38.6
LN86-3357	40.3	40.8	40.3	40.5	39.7
LN87-1744	42.0	42.7	42.0	42.7	40.6
LN87-2112	41.3	41.7	41.2	41.5	40.8
LN88-9900	40.1	40.3	39.9	40.2	40.1
LN88-9242	40.4	40.0	40.3	41.6	39.7
LN88-10534	41.6	41.4	41.5	42.6	40.7
SL89-314	41.2	40.9	41.7	41.0	41.3
U90-2226	41.6	41.2	41.8	43.3	40.0
U90-2310	39.4	40.5	38.8	40.0	38.1
U90-2434	40.3	39.6	40.4	41.6	39.6
U90-2711	41.5	41.4	41.7	42.3	40.6

UNIFORM TEST III, 1992

OIL (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Charleston (dtl)	19.3	18.3	20.0	18.8	19.9
Flyer (IV)	20.4	19.1	21.2	19.7	21.7
IA2007 (II)	20.6	19.9	21.0	19.8	21.8
Resnik (III)	19.9	19.1	20.5	18.9	21.2
C1832	19.7	18.9	20.1	19.5	20.4
C1845	19.9	18.7	20.7	19.3	21.0
HC78-676-2	19.2	18.1	19.8	18.3	20.4
HC78-676-3	19.1	18.4	19.2	18.8	19.9
HC78-676-13	19.1	18.1	19.6	18.0	20.6
HC85-603	20.6	20.0	21.4	19.9	21.1
HC85-607	20.7	20.0	21.1	20.3	21.5
HC85-618	20.9	20.2	21.5	20.2	21.6
HC86-278	19.4	18.1	19.9	19.1	20.6
HC86-554	19.9	18.6	20.6	19.4	21.0
HM8890	20.4	19.4	20.5	20.5	21.1
K1200	21.2	19.9	22.1	20.0	22.7
LN86-3357	20.0	18.5	20.7	19.8	21.0
LN87-1744	19.7	18.1	20.4	19.4	20.9
LN87-2112	20.7	19.2	21.4	20.8	21.5
LN88-9900	19.4	18.7	20.0	19.1	19.9
LN88-9242	21.2	20.3	21.8	20.5	22.1
LN88-10534	19.8	18.9	20.6	19.2	20.3
SL89-314	20.5	19.2	21.0	20.6	21.0
U90-2226	20.3	19.7	20.7	19.3	21.5
U90-2310	21.7	21.9	21.8	20.9	22.3
U90-2434	20.9	19.8	21.6	20.5	21.7
U90-2711	19.9	18.4	20.5	19.4	21.1

PRELIMINARY TEST IIIA, 1992

Strain	Parentage	Generation Composited	Unique Traits
Flyer (IV)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	BC3 F3	Rps1-k
C1856	Resnik x CX889-10	F6	Rps1-k
C1857	Resnik x CX889-10	F6	Rps1-k
C1858	Resnik x CX889-10	F6	Rps1-k
C1859	Resnik x C1699	F6	Rps1-k Het.
C1860	Resnik x C1699	F6	Rps1-k
C1862	Resnik x CX981-131	F5	Rps1-k
C1863	Resnik x CX981-131	F5	Rps1-k
C1864	Resnik x CX981-131	F5	Rps1-k
C1865	Resnik x CX981-131	F5	Rps1-k Het.
LN88-8125	HW8221 x Asgrow A2943	F5	Rps?
LN88-9230	Sherman x Chamberlain	F5	Rps1-a
LN88-9883	Sherman x Asgrow A2943	F5	
LN88-10410	LN81-1029 x Asgrow A2943	F5	Rps?
LN88-11336	A83-271027 x Asgrow A2943	F5	Rps1-a
LN89-295	Sherman x Resnik	F5	
LN89-426	Sherman x Resnik	F5	
LN89-2395	Hobbit 87 x Resnik	F5	Rps1-k
LN89-4764	Northrup King S27-80 x Asgrow A3205	F5	Rps1-c
LN89-5447	LNX8519 x Resnik	F5	Rps?
K1225	Asgrow A2943 x Ripley	F5	
K1226	Asgrow A3427 x Asgrow A3966	F5	
K1227	Sherman x Asgrow A3427	F5	
K1228	Elgin x Asgrow A3427	F5	
K1229	Asgrow A2943 x Ripley	F5	
K1230	Sherman x Asgrow A3427	F5	
K1231	Elgin x Asgrow A3427	F5	
K1232	Elgin x Asgrow A3427	F5	
U91-3116	Hamilton x Kenwood	F4	
U91-3133	Agserv 8780 x Asgrow A3427	F4	
U91-3212	Hamilton x A86-204022	F4	
U91-3220	Agserv 8780 x Sturdy	F4	
U91-3434	Hamilton x A86-204022	F4	
U91-3516	Hamilton x Kenwood	F4	
U91-3529	Agserv 8780 x Asgrow A3427	F4	
U91-3603	Agserv 8780 x Kenwood	F4	
U91-3607	Hamilton x Kenwood	F4	
U91-3610	Hamilton x Asgrow A3427	F4	

PRELIMINARY TEST IIIA, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Germination Lafayatte %	Shattering Score Manhattan	BSR-Boone Plant n %	BSR-Boone Stem n %
Flyer (IV)	PTTSYBlI	84	1	100	89.8
IA2007 (II)	PTBDYBrI	72	1	100	99.1
Resnik (III)	PTTIYBlI	80	1	100	100.0
C1856	WTTDYBlI	96	1	90	88.0
C1857	P+WTBDYBlI	94	1	100	89.4
C1858	WTBDYBlI	100	1	100	100.0
C1859	PTTDYGrI	100	1	100	95.9
C1860	PTTDYGrI	84	1	100	62.3
C1862	PTTDYBlI	94	1	100	93.6
C1863	PTTDYBlI	92	1	100	90.9
C1864	P+WTTDYBlI	100	1	100	91.6
C1865	PTTDYBlI	90	1	100	84.4
LN88-8125	PTTDYBlI	80	2	100	91.8
LN88-9230	WGBIYBlI	96	2	90	67.9
LN88-9883	WGTDYBfI	90	1	80	62.8
LN88-10410	WGTDYBfI	92	1	100	95.4
LN88-11336	PGBDYIbI	92	1	100	87.0
LN89-295	WTBDYBlI	98	1	100	98.6
LN89-426	WTBIYBfI	98	1	100	87.3
LN89-2395	PTTIYYI	94	1	100	86.0
LN89-4764	PTBDYBlI	92	2	100	92.6
LN89-5447	PTTDYBlI	98	1	100	86.0
K1225	PGTDYBfI	98	1	100	85.0
K1226	PTTDYBlI	86	1	100	75.1
K1227	P+WTTDYBlI	98	1	100	88.4
K1228	PTBDYBlI	92	1	100	93.1
K1229	PGTDYIbI	96	1	100	76.9
K1230	PTBIYBlI	82	1	100	86.2
K1231	PTBDYBlI	66	1	100	71.4
K1232	PTBDYBlI	68	2	100	76.3
U91-3116	WGTIYBfI	--	1	100	98.1
U91-3133	P+WTTDYBlI	90	1	100	95.0
U91-3212	WGTDYBfI	78	1	100	93.4
U91-3220	WGBDYBfI	84	1	100	94.5
U91-3434	WGB+TDYBfI	74	2	100	96.5
U91-3516	WGTIYBfI	54	1	100	93.9
U91-3529	PG+TBDYBlI	54	1	100	97.0
U91-3603	P+WTBIYBlI	74	2	100	89.8
U91-3607	P+WGB+TDYBfI	84	1	100	93.4
U91-3610	P+WG+TDYBfI	--	1	100	98.8

PRELIMINARY TEST IIIA, 1992

DISEASE DATA

Strain	PR Phyto. Tol. NW Branch	PR Urbana Race 1	PR Ames Race 4	PR Lafayette Race 7	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Flyer (IV)	3.4	R	R	R	13	4	3E
IA2007 (II)	4.0	R	S	R	16	2	3E
Resnik (III)	3.6	R	R	R	3	4	1
C1856	3.4	R	R	H	7	0	1
C1857	3.0	R	R	R	5	0	1
C1858	3.3	R	R	R	0	0	1
C1859	4.3	H	H	H	0	0	2E
C1860	3.4	R	R	R	7	16	2E
C1862	3.4	R	R	R	8	6	1
C1863	3.3	R	R	R	1	2	3M
C1864	3.5	R	R	R	0	0	1
C1865	3.1	R	S	H	11	8	3E
LN88-8125	3.8	R	R	R	2	18	2M
LN88-9230	4.1	R	S	S	9	0	3E
LN88-9883	3.6	S	S	S	13	4	1
LN88-10410	4.3	R	S	S	19	0	2M
LN88-11336	4.5	R	S	S	1	0	1
LN89-295	3.6	S	S	S	1	0	1
LN89-426	4.0	S	S	S	11	0	2M
LN89-2395	3.6	R	R	R	5	2	1
LN89-4764	3.6	R	S	R	0	4	3E
LN89-5447	3.6	R	R	R	7	2	3M
K1225	3.4	S	H	S	10	4	2M
K1226	2.9	S	S	S	17	14	2M
K1227	3.6	S	S	S	25	2	2M
K1228	3.4	S	S	S	75	6	3M
K1229	3.3	S	S	S	1	2	1
K1230	5.1	S	S	S	6	2	1
K1231	3.1	R	S	S	16	8	1
K1232	3.6	S	S	S	17	2	4E
U91-3116	3.9	S	S	S	--	--	--
U91-3133	3.0	R	S	S	1	0	4E
U91-3212	4.3	S	S	S	4	8	2M
U91-3220	3.9	R	S	S	10	0	2E
U91-3434	3.8	S	H	S	16	4	3M
U91-3516	3.4	S	S	S	6	12	1
U91-3529	3.6	R	S	R	0	8	1
U91-3603	3.8	S	S	S	8	2	2M
U91-3607	3.8	S	S	S	27	2	2M
U91-3610	3.4	H	S	S	--	--	--

PRELIMINARY TEST IIIA, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
Flyer (IV)	56.6	21	8.1	1.4	38	1.6	15.4	41.3	20.3
IA2007 (II)	57.2	17	-2.7	1.4	36	1.8	17.3	40.1	20.5
Resnik (III)	56.3	24	09/21*	1.2	36	1.5	15.6	41.5	20.3
C1856	58.0	12	1.7	2.0	41	1.5	13.6	40.3	20.5
C1857	56.4	23	2.7	1.5	36	1.5	14.9	40.5	20.3
C1858	54.9	37	0.3	1.5	39	1.4	14.1	41.3	19.5
C1859	56.0	26	-1.6	1.2	36	1.7	18.3	41.3	20.2
C1860	57.2	17	4.7	1.4	42	1.8	17.6	41.5	20.5
C1862	58.0	12	7.2	1.2	37	1.6	16.2	41.7	20.4
C1863	56.8	20	5.2	1.5	38	1.6	16.2	40.7	20.5
C1864	55.2	33	0.0	1.4	37	1.5	15.4	40.9	20.0
C1865	55.0	35	6.1	1.6	43	1.7	15.1	40.5	20.5
LN88-8125	55.2	33	-1.6	1.4	37	1.7	19.2	39.9	21.0
LN88-9230	57.8	15	1.9	1.4	35	1.9	17.5	41.8	20.0
LN88-9883	59.0	8	7.9	1.7	38	1.7	14.5	41.2	19.8
LN88-10410	55.0	35	2.8	1.1	40	1.5	15.6	41.8	19.6
LN88-11336	53.4	40	-0.6	1.4	35	1.5	14.1	42.5	19.6
LN89-295	60.8	1	3.8	1.3	35	1.6	18.3	40.7	20.1
LN89-426	55.9	27	8.0	1.3	35	1.4	15.7	40.7	20.3
LN89-2395	54.8	38	6.8	1.1	33	1.6	16.4	39.8	21.3
LN89-4764	55.8	28	1.9	2.2	36	1.7	15.2	42.3	19.2
LN89-5447	53.9	39	9.3	1.6	38	1.5	17.1	41.6	19.7
K1225	56.1	25	6.7	1.6	43	1.6	17.1	40.7	21.1
K1226	59.6	4	8.1	1.9	41	1.6	15.9	40.1	20.7
K1227	56.9	19	9.0	1.9	38	1.6	16.6	42.4	20.2
K1228	58.0	12	7.3	1.6	36	1.9	17.7	40.9	19.8
K1229	58.9	9	7.2	1.3	41	1.4	14.1	40.7	20.5
K1230	60.0	2	1.2	1.6	35	1.5	17.2	40.8	20.6
K1231	59.3	7	9.2	2.1	37	1.5	18.2	41.2	20.1
K1232	59.3	5	7.3	1.6	39	1.6	16.1	39.3	20.4
U91-3116	55.5	31	3.4	1.6	35	1.4	17.0	41.4	20.7
U91-3133	58.5	10	2.8	1.6	37	1.4	16.2	40.8	20.8
U91-3212	59.9	3	3.7	1.7	38	1.4	16.1	41.1	20.2
U91-3220	55.8	28	4.1	1.8	37	1.8	15.8	40.7	20.1
U91-3434	55.6	30	-2.4	1.4	33	1.7	16.0	40.6	20.9
U91-3516	58.1	11	3.4	2.0	35	1.4	17.2	42.2	20.1
U91-3529	55.3	32	-1.2	1.8	38	1.4	18.2	42.2	20.1
U91-3603	56.5	22	8.6	2.1	39	1.9	13.7	39.9	20.1
U91-3607	57.8	15	4.1	1.5	37	1.7	17.3	41.2	20.8
U91-3610	59.3	5	3.3	1.6	38	1.6	16.9	40.9	20.7

* 134.7 Days After Planting

PRELIMINARY TEST IIIA, 1992

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	56.6	53.7	51.9	71.1	57.1	62.7
IA2007 (II)	57.2	53.4	51.0	74.8	53.0	53.1
Resnik (III)	56.3	50.8	55.7	74.1	53.6	62.2
C1856	58.0	54.7	52.4	75.9	50.8	67.0
C1857	56.4	50.9	53.9	75.4	52.3	69.3
C1858	54.9	47.2	54.1	77.1	51.8	66.3
C1859	56.0	50.5	55.6	77.9	52.7	63.5
C1860	57.2	50.5	50.6	73.1	58.1	66.1
C1862	58.0	52.8	55.1	71.2	57.1	61.3
C1863	56.8	52.3	52.8	69.6	51.8	63.7
C1864	55.2	52.1	49.3	73.1	52.0	58.8
C1865	55.0	50.6	48.5	69.3	49.4	60.8
LN88-8125	55.2	50.9	57.2	70.0	49.3	55.3
LN88-9230	57.8	54.4	53.0	75.9	56.4	61.5
LN88-9883	59.0	50.9	55.1	77.9	59.4	65.6
LN88-10410	55.0	48.6	49.0	71.9	52.6	55.7
LN88-11336	53.4	45.2	46.2	70.0	48.8	56.3
LN89-295	60.8	60.3	54.4	79.3	57.0	66.4
LN89-426	55.9	54.2	55.7	76.9	58.1	65.3
LN89-2395	54.8	54.2	55.5	70.2	52.5	65.9
LN89-4764	55.8	50.3	49.7	74.5	55.7	59.5
LN89-5447	53.9	47.2	48.7	69.4	54.1	66.0
K1225	56.1	48.4	50.3	71.0	54.9	56.6
K1226	59.6	53.3	50.8	73.8	60.3	66.7
K1227	56.9	55.5	54.6	71.2	57.0	67.3
K1228	58.0	55.2	52.8	73.7	53.7	65.7
K1229	58.9	53.6	55.2	68.7	54.4	70.8
K1230	60.0	55.1	52.5	79.7	54.8	67.7
K1231	59.3	52.1	52.7	70.7	55.2	65.1
K1232	59.3	53.2	55.5	74.1	60.2	67.4
U91-3116	55.5	51.0	51.5	70.4	49.1	63.4
U91-3133	58.5	53.8	54.9	73.7	57.9	67.6
U91-3212	59.9	55.0	55.6	77.8	47.8	70.1
U91-3220	55.8	50.1	55.5	73.1	44.9	67.8
U91-3434	55.6	51.8	52.6	74.1	49.0	66.2
U91-3516	58.1	47.8	56.5	71.2	51.2	66.1
U91-3529	55.3	51.1	53.5	74.1	50.7	57.4
U91-3603	56.5	47.0	52.2	66.7	52.3	65.7
U91-3607	57.8	55.8	56.3	73.2	56.9	66.6
U91-3610	59.3	56.5	56.5	75.9	46.7	67.2
C.V. (%)		4.4	5.3	3.6	6.2	4.8
L.S.D. (5%)		4.6	5.7	5.4	6.8	6.2
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 1992

YIELD (bu/a)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	36.9	56.4	63.3	49.9	63.2
IA2007 (II)	39.2	58.0	73.1	54.8	62.0
Resnik (III)	43.3	59.6	63.1	43.1	57.1
C1856	45.2	56.5	71.1	49.3	57.3
C1857	33.7	58.4	60.7	56.8	52.2
C1858	37.1	52.5	59.4	52.5	50.6
C1859	42.3	51.0	65.9	41.7	59.3
C1860	48.3	55.0	62.1	49.5	58.6
C1862	37.7	56.8	69.2	54.6	63.7
C1863	49.2	55.2	63.4	51.9	58.1
C1864	40.9	55.3	58.8	52.6	59.1
C1865	44.8	51.3	64.3	58.5	52.3
LN88-8125	34.8	57.0	67.4	57.2	53.2
LN88-9230	41.5	56.3	70.6	46.6	62.0
LN88-9883	49.7	65.0	56.4	48.0	62.0
LN88-10410	49.4	55.9	63.7	48.9	54.0
LN88-11336	43.2	54.8	56.3	61.9	51.1
LN89-295	47.3	55.6	66.5	58.3	63.2
LN89-426	38.5	53.1	58.2	42.6	56.8
LN89-2395	42.6	49.5	60.2	48.9	48.3
LN89-4764	38.9	57.7	75.3	47.6	48.8
LN89-5447	35.8	50.9	57.3	57.7	51.4
K1225	40.6	51.0	63.2	58.4	66.6
K1226	48.0	53.5	68.8	56.8	63.9
K1227	42.8	57.7	61.1	42.3	59.1
K1228	38.5	58.2	63.1	59.6	59.0
K1229	44.0	59.1	68.6	47.5	66.9
K1230	46.5	63.2	68.8	52.1	59.5
K1231	45.0	56.6	68.2	62.4	64.5
K1232	45.7	54.6	68.4	54.3	59.6
U91-3116	42.1	58.7	75.3	47.1	46.6
U91-3133	40.7	56.6	64.3	52.9	62.4
U91-3212	52.9	56.6	72.3	49.3	61.9
U91-3220	45.2	60.4	71.4	34.8	54.6
U91-3434	42.4	59.6	65.5	44.1	50.8
U91-3516	55.5	64.3	68.8	47.5	52.3
U91-3529	38.6	53.4	62.8	54.2	57.0
U91-3603	46.8	57.6	67.3	48.9	60.7
U91-3607	36.6	64.6	58.5	44.3	64.9
U91-3610	50.9	62.2	69.8	48.3	59.1
C.V. (%)	10.1	4.0	5.8	14.2	4.5
L.S.D. (5%)	8.9	6.5	10.8	14.6	5.2
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 1992

YIELD RANK

Strain	Yield Rank	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	21	13	29	29	7	28
IA2007 (II)	17	15	31	12	21	40
Resnik (III)	24	28	5	14	20	29
C1856	12	8	27	8	31	10
C1857	23	25	19	11	25	3
C1858	37	37	18	6	28	14
C1859	26	30	7	3	22	26
C1860	17	30	33	22	4	16
C1862	12	18	13	26	7	31
C1863	20	19	22	36	28	25
C1864	33	20	36	22	27	34
C1865	35	29	39	38	33	32
LN88-8125	33	25	1	34	34	39
LN88-9230	15	9	21	8	12	30
LN88-9883	8	25	13	3	3	22
LN88-10410	35	34	37	25	23	38
LN88-11336	40	40	40	34	37	37
LN89-295	1	1	17	2	9	13
LN89-426	27	10	5	7	4	23
LN89-2395	38	10	9	33	24	19
LN89-4764	28	32	35	13	13	33
LN89-5447	39	37	38	37	18	18
K1225	25	35	34	30	15	36
K1226	4	16	32	18	1	11
K1227	19	4	16	26	9	8
K1228	12	5	22	19	19	20
K1229	9	14	12	39	17	1
K1230	2	6	26	1	16	5
K1231	7	20	24	31	14	24
K1232	5	17	9	14	2	7
U91-3116	31	24	30	32	35	27
U91-3133	10	12	15	19	6	6
U91-3212	3	7	7	5	38	2
U91-3220	28	33	9	22	40	4
U91-3434	30	22	25	14	36	15
U91-3516	11	36	2	26	30	16
U91-3529	32	23	20	14	32	35
U91-3603	22	39	28	40	25	20
U91-3607	15	3	4	21	11	12
U91-3610	5	2	2	8	39	9

PRELIMINARY TEST IIIA, 1992

YIELD RANK

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	36	23	25	20	7
IA2007 (II)	29	13	3	11	10
Resnik (III)	18	7	27	36	25
C1856	13	22	6	22	24
C1857	40	11	32	9	33
C1858	35	35	34	17	37
C1859	23	37	19	39	17
C1860	7	29	30	21	22
C1862	34	18	9	12	6
C1863	6	28	24	19	23
C1864	26	27	35	16	18
C1865	16	36	21	4	31
LN88-8125	39	17	16	8	30
LN88-9230	25	24	7	33	10
LN88-9883	4	1	39	28	10
LN88-10410	5	25	23	24	29
LN88-11336	19	30	40	2	35
LN89-295	9	26	18	6	7
LN89-426	32	34	37	37	27
LN89-2395	21	40	33	24	39
LN89-4764	30	14	1	29	38
LN89-5447	38	39	38	7	34
K1225	28	37	26	5	2
K1226	8	32	10	9	5
K1227	20	14	31	38	18
K1228	32	12	27	3	21
K1229	17	9	13	31	1
K1230	11	4	10	18	16
K1231	15	19	15	1	4
K1232	12	31	14	13	15
U91-3116	24	10	1	32	40
U91-3133	27	19	21	15	9
U91-3212	2	19	4	22	13
U91-3220	13	6	5	40	28
U91-3434	22	7	20	35	36
U91-3516	1	3	10	30	31
U91-3529	31	33	29	14	26
U91-3603	10	16	17	24	14
U91-3607	37	2	36	34	3
U91-3610	3	5	8	27	18

PRELIMINARY TEST IIIA, 1992

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	8.1		8	8	8	9
IA2007 (II)	-2.7		-4	-1	-3	-4
Resnik (III)	09/21		09/22	09/16	09/19	09/29
C1856	1.7		2	3	0	1
C1857	2.7		3	2	4	4
C1858	0.3		-2	1	1	2
C1859	-1.6		-4	0	-4	0
C1860	4.7		4	6	5	6
C1862	7.2		6	8	7	7
C1863	5.2		4	5	3	4
C1864	0.0		-2	1	2	-1
C1865	6.1		6	8	6	6
LN88-8125	-1.6		-4	0	-3	-1
LN88-9230	1.9		2	3	2	0
LN88-9883	7.9		8	8	7	7
LN88-10410	2.8		2	4	3	2
LN88-11336	-0.6		-1	1	-1	-2
LN89-295	3.8		3	3	4	5
LN89-426	8.0		6	7	8	7
LN89-2395	6.8		4	6	3	6
LN89-4764	1.9		2	1	1	-1
LN89-5447	9.3		10	9	9	10
K1225	6.7		8	11	7	2
K1226	8.1		7	9	11	7
K1227	9.0		8	11	11	9
K1228	7.3		5	8	6	10
K1229	7.2		6	11	2	8
K1230	1.2		2	2	0	1
K1231	9.2		8	11	10	9
K1232	7.3		6	11	7	9
U91-3116	3.4		2	8	-1	7
U91-3133	2.8		4	6	3	6
U91-3212	3.7		2	7	0	7
U91-3220	4.1		4	8	1	4
U91-3434	-2.4		-6	-2	-5	-2
U91-3516	3.4		2	7	1	8
U91-3529	-1.2		-2	-1	-2	-1
U91-3603	8.6		8	9	10	10
U91-3607	4.1		3	8	3	6
U91-3610	3.3		4	8	-1	4
Date Planted	05/09		05/12	05/07	05/08	05/21
Days to Mature	134.7		133	132	134	131

PRELIMINARY TEST IIIA, 1992

MATURITY (date)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	5	8	11	5	11
IA2007 (II)	-4	-1	-1	-5	-1
Resnik (III)	09/04	10/02	09/27	09/27	09/16
C1856	-1	5	6	-2	1
C1857	3	4	6	-3	1
C1858	0	3	0	-2	0
C1859	-2	-1	-1	-3	1
C1860	3	4	7	2	5
C1862	3	8	10	5	11
C1863	2	8	10	1	10
C1864	0	0	2	-3	1
C1865	2	8	9	2	8
LN88-8125	-2	0	0	-4	0
LN88-9230	0	2	6	-2	4
LN88-9883	6	9	12	1	13
LN88-10410	1	6	8	-3	2
LN88-11336	-2	1	3	-5	1
LN89-295	4	4	6	-1	6
LN89-426	4	10	12	4	14
LN89-2395	3	8	11	8	12
LN89-4764	1	6	6	-1	2
LN89-5447	5	10	13	4	14
K1225	0	8	12	2	10
K1226	5	8	11	3	12
K1227	3	10	13	4	12
K1228	5	8	10	1	13
K1229	4	9	13	0	12
K1230	2	3	3	-3	1
K1231	6	9	12	6	12
K1232	6	8	8	3	8
U91-3116	2	4	8	-2	3
U91-3133	2	4	2	-3	1
U91-3212	4	6	7	-1	1
U91-3220	1	8	10	-1	2
U91-3434	-3	-1	0	-3	0
U91-3516	1	5	7	-1	1
U91-3529	-2	0	0	-4	1
U91-3603	6	10	10	1	13
U91-3607	2	7	7	-2	3
U91-3610	1	6	7	-1	2
Date Planted	04/29	05/09	05/11	05/15	05/05
Days to Mature	128	146	139	135	134

PRELIMINARY TEST IIIA, 1992

LODGING (score)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.4	2.1	1.4	1.5	1.5	1.0
IA2007 (II)	1.4	1.7	1.5	2.0	2.0	1.0
Resnik (III)	1.2	1.7	1.3	1.0	1.3	1.5
C1856	2.0	1.9	2.8	3.0	2.8	1.5
C1857	1.5	2.2	1.7	2.0	1.5	1.0
C1858	1.5	2.4	1.8	2.0	1.8	1.0
C1859	1.2	1.6	1.3	1.5	1.0	1.0
C1860	1.4	1.8	1.3	2.0	1.3	1.5
C1862	1.2	1.8	1.3	1.0	1.3	1.0
C1863	1.5	2.3	1.6	2.5	1.8	1.0
C1864	1.4	2.6	1.5	1.5	1.3	1.0
C1865	1.6	2.1	1.8	2.0	2.0	1.0
LN88-8125	1.4	1.6	1.9	2.0	1.5	1.0
LN88-9230	1.4	2.6	1.3	2.0	1.3	1.0
LN88-9883	1.7	2.1	1.7	2.0	3.5	1.0
LN88-10410	1.1	1.5	1.3	1.0	1.0	1.5
LN88-11336	1.4	1.7	1.6	2.0	1.3	1.0
LN89-295	1.3	2.1	1.5	2.0	1.3	1.0
LN89-426	1.3	2.1	1.5	1.5	1.5	1.0
LN89-2395	1.1	1.7	1.2	1.0	1.0	1.0
LN89-4764	2.2	2.8	2.8	3.0	2.5	1.5
LN89-5447	1.6	1.9	1.6	2.0	2.0	1.0
K1225	1.6	1.8	1.9	2.5	2.0	1.0
K1226	1.9	2.5	1.9	2.0	3.0	2.0
K1227	1.9	2.1	1.7	2.0	3.0	1.5
K1228	1.6	2.9	1.5	1.5	2.0	1.0
K1229	1.3	1.5	1.5	2.0	1.3	1.0
K1230	1.6	2.3	1.5	2.0	2.5	1.0
K1231	2.1	3.3	1.8	2.5	3.0	1.5
K1232	1.6	2.7	1.5	2.0	2.3	1.0
U91-3116	1.6	2.4	2.1	2.0	1.8	1.5
U91-3133	1.6	1.8	1.8	2.0	2.5	1.0
U91-3212	1.7	2.0	2.6	2.5	2.3	1.0
U91-3220	1.8	2.5	2.0	3.5	2.0	1.0
U91-3434	1.4	2.3	1.6	1.5	2.0	1.0
U91-3516	2.0	2.6	2.7	3.5	2.0	2.0
U91-3529	1.8	3.0	2.3	1.5	3.5	1.5
U91-3603	2.1	2.9	2.8	2.5	2.8	1.5
U91-3607	1.5	2.3	1.4	2.0	2.0	2.0
U91-3610	1.6	2.0	1.8	2.0	1.3	2.5

PRELIMINARY TEST IIIA, 1992

LODGING (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	1.0	1.0	1.0	1.5	2.0
IA2007 (II)	1.0	1.0	1.0	1.3	1.0
Resnik (III)	1.0	1.0	1.0	1.0	1.3
C1856	1.0	1.0	2.5	1.4	2.5
C1857	1.0	1.0	1.5	1.4	1.5
C1858	1.0	1.0	1.0	1.3	1.5
C1859	1.0	1.0	1.0	1.1	1.5
C1860	1.0	1.0	1.0	1.4	1.8
C1862	1.0	1.0	1.0	1.7	1.3
C1863	1.0	1.0	1.0	1.5	1.5
C1864	1.0	1.0	1.0	1.5	1.3
C1865	1.0	1.0	2.0	1.7	1.8
LN88-8125	1.0	1.0	1.0	1.5	1.3
LN88-9230	1.0	1.0	1.0	1.3	1.3
LN88-9883	1.0	1.0	2.0	1.3	1.8
LN88-10410	1.0	1.0	1.0	1.1	1.0
LN88-11336	1.0	1.0	1.5	1.5	1.3
LN89-295	1.0	1.0	1.0	1.5	1.0
LN89-426	1.0	1.0	1.0	1.2	1.3
LN89-2395	1.0	1.0	1.0	1.2	1.0
LN89-4764	1.0	1.0	3.0	1.6	3.0
LN89-5447	1.0	1.0	2.0	1.8	1.5
K1225	1.0	1.0	1.5	1.5	1.5
K1226	1.0	1.0	1.5	1.7	2.5
K1227	1.0	1.0	3.0	1.3	2.3
K1228	1.0	1.0	1.5	1.9	1.3
K1229	1.0	1.0	1.0	1.3	1.0
K1230	1.0	1.0	1.5	1.4	1.8
K1231	1.0	1.0	2.0	2.4	2.3
K1232	1.0	1.0	1.0	1.5	1.5
U91-3116	1.0	1.0	1.0	1.4	1.5
U91-3133	1.0	1.0	1.5	1.7	2.0
U91-3212	1.0	1.0	1.5	1.2	1.8
U91-3220	1.0	1.0	2.5	1.1	1.5
U91-3434	1.0	1.0	1.0	1.2	1.3
U91-3516	1.0	1.0	2.0	1.2	1.5
U91-3529	1.0	1.0	1.0	1.4	1.5
U91-3603	1.0	1.0	2.0	1.5	3.0
U91-3607	1.0	1.0	1.0	1.2	1.3
U91-3610	1.0	1.0	1.0	1.4	1.5

PRELIMINARY TEST IIIA, 1992

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	38	44	40	45	37	34
IA2007 (II)	36	44	38	37	38	34
Resnik (III)	36	43	40	43	37	32
C1856	41	46	42	45	38	42
C1857	36	40	40	42	35	34
C1858	39	44	40	41	39	39
C1859	36	44	40	41	38	35
C1860	42	48	46	47	42	37
C1862	37	46	40	42	37	33
C1863	38	44	42	44	38	36
C1864	37	45	40	43	37	36
C1865	43	48	43	47	44	41
LN88-8125	37	46	40	41	41	32
LN88-9230	35	40	40	39	39	33
LN88-9883	38	46	39	42	39	35
LN88-10410	40	50	44	48	41	34
LN88-11336	35	44	39	39	36	30
LN89-295	35	42	40	42	36	33
LN89-426	35	42	40	42	36	31
LN89-2395	33	40	39	37	36	31
LN89-4764	36	48	38	40	38	34
LN89-5447	38	44	40	43	38	34
K1225	43	49	44	46	44	40
K1226	41	49	44	47	40	38
K1227	38	43	43	40	40	35
K1228	36	44	40	39	37	36
K1229	41	48	44	46	44	37
K1230	35	42	38	39	34	34
K1231	37	44	40	38	35	34
K1232	39	46	42	46	38	37
U91-3116	35	44	38	39	38	33
U91-3133	37	44	40	41	38	32
U91-3212	38	48	40	41	39	38
U91-3220	37	46	42	42	40	33
U91-3434	33	44	36	36	34	33
U91-3516	35	46	36	37	39	37
U91-3529	38	46	38	42	38	35
U91-3603	39	48	42	41	39	38
U91-3607	37	44	41	41	41	36
U91-3610	38	46	42	42	40	38

PRELIMINARY TEST IIIA, 1992

PLANT HEIGHT (inches)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	35	34	38	31	39
IA2007 (II)	31	34	39	29	32
Resnik (III)	33	35	41	26	34
C1856	39	43	45	33	33
C1857	33	32	38	31	37
C1858	37	35	43	32	37
C1859	29	30	38	26	35
C1860	43	38	45	34	37
C1862	32	32	41	31	35
C1863	36	35	38	30	36
C1864	34	34	38	31	35
C1865	42	41	47	39	39
LN88-8125	30	36	40	32	32
LN88-9230	32	33	37	25	34
LN88-9883	38	35	40	30	34
LN88-10410	35	39	43	32	38
LN88-11336	31	32	39	32	29
LN89-295	34	32	35	28	32
LN89-426	31	32	39	24	34
LN89-2395	30	31	33	26	27
LN89-4764	31	32	39	28	31
LN89-5447	35	38	40	32	34
K1225	41	41	49	36	41
K1226	39	38	44	33	38
K1227	34	38	38	27	38
K1228	34	34	39	31	30
K1229	38	36	43	31	38
K1230	35	32	37	27	35
K1231	35	35	39	33	36
K1232	36	36	42	31	37
U91-3116	30	35	39	29	27
U91-3133	34	34	38	33	36
U91-3212	36	34	41	29	36
U91-3220	34	37	41	22	34
U91-3434	28	31	37	25	28
U91-3516	32	32	37	28	30
U91-3529	34	36	40	33	34
U91-3603	36	36	42	32	38
U91-3607	32	35	38	26	34
U91-3610	33	33	39	31	37

PRELIMINARY TEST IIIA, 1992

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.6	1.6	2.0	1.4	1.0	2.0
IA2007 (II)	1.8	1.5	1.4	1.4	1.5	3.0
Resnik (III)	1.5	1.7	1.3	1.2	1.0	2.0
C1856	1.5	1.5	1.4	1.4	1.0	2.0
C1857	1.5	1.7	1.3	1.4	1.0	2.0
C1858	1.4	1.4	1.5	1.5	1.0	2.0
C1859	1.7	2.0	1.5	2.3	1.0	2.0
C1860	1.8	1.7	2.1	2.0	1.0	2.0
C1862	1.6	1.4	2.3	1.4	1.0	2.0
C1863	1.6	1.5	1.7	1.8	1.0	2.0
C1864	1.5	1.4	1.7	1.5	1.0	2.0
C1865	1.7	2.0	2.1	1.5	1.0	3.0
LN88-8125	1.7	1.6	1.5	1.4	1.0	2.0
LN88-9230	1.9	1.5	2.0	2.3	1.0	3.0
LN88-9883	1.7	1.5	1.4	1.6	1.5	3.0
LN88-10410	1.5	1.3	1.5	1.2	1.0	2.0
LN88-11336	1.5	1.4	1.7	1.2	1.0	2.0
LN89-295	1.6	1.4	1.4	1.2	1.0	2.0
LN89-426	1.4	1.2	1.5	1.4	1.0	2.0
LN89-2395	1.6	1.3	1.6	1.4	1.0	2.0
LN89-4764	1.7	1.5	1.5	1.8	1.5	2.0
LN89-5447	1.5	1.8	1.4	1.5	1.0	2.0
K1225	1.6	1.5	1.4	1.8	1.0	2.0
K1226	1.6	2.2	1.3	1.6	1.0	2.0
K1227	1.6	1.8	1.2	1.8	1.0	2.0
K1228	1.9	1.7	1.5	1.8	1.0	4.0
K1229	1.4	1.3	1.2	1.8	1.0	2.0
K1230	1.5	1.2	1.4	1.2	1.0	2.0
K1231	1.5	1.8	1.4	1.6	1.0	2.0
K1232	1.6	1.6	1.2	1.5	1.0	2.0
U91-3116	1.4	1.7	1.3	1.2	1.0	2.0
U91-3133	1.4	1.6	1.2	1.4	1.0	2.0
U91-3212	1.4	1.3	1.2	1.2	1.0	2.0
U91-3220	1.8	1.4	2.0	1.5	1.0	3.0
U91-3434	1.7	1.5	1.8	1.2	1.0	3.0
U91-3516	1.4	1.5	1.3	1.5	1.0	2.0
U91-3529	1.4	1.3	1.2	1.2	1.0	2.0
U91-3603	1.9	1.8	1.5	2.0	1.5	3.0
U91-3607	1.7	1.7	1.6	1.5	1.0	2.0
U91-3610	1.6	1.4	1.8	1.8	1.0	2.0

PRELIMINARY TEST IIIA, 1992

SEED QUALITY (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	3.0	1.0	1.5	1.1	1.5
IA2007 (II)	3.0	1.0	2.0	1.3	2.0
Resnik (III)	3.0	1.0	1.0	1.1	1.5
C1856	3.0	1.0	1.0	1.1	1.5
C1857	2.0	1.0	1.0	1.4	2.0
C1858	2.0	1.0	1.0	1.3	1.5
C1859	2.0	1.5	1.5	1.5	2.0
C1860	3.0	1.0	1.5	1.3	2.0
C1862	3.0	1.0	1.0	1.3	2.0
C1863	3.0	1.0	1.0	1.4	2.0
C1864	2.0	1.0	1.0	1.4	2.0
C1865	3.0	1.0	1.0	1.2	1.5
LN88-8125	3.0	1.0	2.0	1.5	1.5
LN88-9230	3.0	1.0	2.0	1.5	1.5
LN88-9883	2.0	1.0	1.5	1.5	1.5
LN88-10410	3.0	1.0	1.0	1.6	1.2
LN88-11336	3.0	1.0	1.0	1.5	1.3
LN89-295	3.0	1.0	2.0	1.2	2.0
LN89-426	2.0	1.0	1.5	1.4	1.3
LN89-2395	3.0	1.5	1.0	1.6	1.2
LN89-4764	3.0	1.0	1.0	1.5	2.0
LN89-5447	2.0	1.0	1.5	1.2	1.5
K1225	3.0	1.0	1.0	1.2	2.0
K1226	3.0	1.0	1.0	1.1	1.5
K1227	3.0	1.0	1.5	1.1	2.0
K1228	3.0	1.0	1.5	1.6	1.8
K1229	2.0	1.5	1.0	1.3	1.3
K1230	3.0	1.0	1.5	1.3	1.5
K1231	3.0	1.0	1.0	1.1	1.5
K1232	3.0	1.0	1.5	1.3	1.5
U91-3116	2.0	1.0	1.0	1.3	1.3
U91-3133	2.0	1.0	1.0	1.2	1.8
U91-3212	2.0	1.0	1.0	1.7	1.5
U91-3220	3.0	1.0	1.5	1.2	2.0
U91-3434	2.0	1.0	1.5	1.7	2.0
U91-3516	2.0	1.0	1.0	1.2	1.8
U91-3529	2.0	1.0	1.5	1.6	1.5
U91-3603	3.0	1.0	1.5	1.3	2.5
U91-3607	3.0	1.0	1.5	1.4	2.0
U91-3610	3.0	1.0	1.0	1.3	1.5

PRELIMINARY TEST IIIA, 1992

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	15.4	15.0	14.1	17.1	14.0	15.6
IA2007 (II)	17.3	16.2	16.0	19.4	16.7	16.0
Resnik (III)	15.6	15.0	15.1	16.7	14.0	15.1
C1856	13.6	13.2	13.0	15.2	11.7	14.0
C1857	14.9	14.5	14.2	16.5	14.0	15.9
C1858	14.1	13.9	14.0	15.7	12.3	14.5
C1859	18.3	16.6	17.6	21.7	16.4	19.3
C1860	17.6	17.0	16.0	21.0	16.9	17.8
C1862	16.2	17.0	15.6	18.4	15.3	15.6
C1863	16.2	16.0	15.0	18.8	15.0	16.5
C1864	15.4	15.2	14.3	17.7	14.1	14.7
C1865	15.1	14.9	13.7	18.0	13.7	16.0
LN88-8125	19.2	18.6	19.8	22.6	19.1	15.6
LN88-9230	17.5	17.8	16.3	19.7	16.6	17.2
LN88-9883	14.5	14.0	13.7	16.8	13.6	13.9
LN88-10410	15.6	14.8	14.3	17.8	14.8	15.2
LN88-11336	14.1	13.7	13.6	15.4	13.1	13.6
LN89-295	18.3	18.7	17.8	20.7	17.1	17.8
LN89-426	15.7	15.2	14.7	18.4	14.8	17.2
LN89-2395	16.4	16.0	15.3	18.3	16.6	17.3
LN89-4764	15.2	14.2	14.3	16.6	14.3	14.9
LN89-5447	17.1	16.9	16.0	19.9	15.4	17.4
K1225	17.1	16.7	15.8	18.5	16.4	16.6
K1226	15.9	15.8	14.4	18.6	15.3	16.0
K1227	16.6	16.1	15.6	19.4	15.8	16.3
K1228	17.7	17.0	16.6	19.6	15.9	17.0
K1229	14.1	13.2	13.4	15.9	13.4	14.7
K1230	17.2	17.0	16.1	19.5	15.6	17.8
K1231	18.2	18.4	17.3	19.6	17.1	17.8
K1232	16.1	16.1	15.5	18.6	14.9	16.1
U91-3116	17.0	16.1	15.8	19.3	15.4	19.3
U91-3133	16.2	15.6	15.7	18.0	14.4	17.0
U91-3212	16.1	15.2	15.2	17.6	14.3	17.4
U91-3220	15.8	15.4	14.8	17.4	14.1	15.6
U91-3434	16.0	15.0	15.1	17.8	13.9	16.1
U91-3516	17.2	16.4	15.6	19.5	15.3	18.6
U91-3529	18.2	16.5	18.0	21.2	16.6	17.2
U91-3603	13.7	13.2	12.6	14.7	12.8	13.5
U91-3607	17.3	16.0	16.3	19.6	15.9	18.4
U91-3610	16.9	15.7	16.3	18.9	14.6	17.7

PRELIMINARY TEST IIIA, 1992

SEED SIZE (g/100)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	13.0	16.6	17.5	14.8	15.9
IA2007 (II)	14.0	18.9	20.6	18.4	16.9
Resnik (III)	13.0	17.5	17.6	17.5	14.8
C1856	13.0	14.1	16.1	14.1	12.0
C1857	11.0	16.5	16.4	15.5	14.0
C1858	11.0	16.0	16.5	15.0	12.2
C1859	15.0	19.4	20.6	18.7	17.2
C1860	13.0	19.7	19.5	18.0	17.3
C1862	13.0	16.6	18.3	16.4	16.0
C1863	14.0	16.7	17.9	15.9	15.7
C1864	12.0	17.0	17.4	16.2	14.9
C1865	12.0	15.5	16.8	15.3	15.2
LN88-8125	13.0	21.4	22.3	21.0	18.6
LN88-9230	14.0	19.0	20.0	16.6	17.3
LN88-9883	11.0	16.8	16.9	13.8	14.9
LN88-10410	13.0	17.7	17.6	16.7	13.6
LN88-11336	13.0	15.9	15.8	14.3	12.2
LN89-295	15.0	20.1	20.4	18.0	17.8
LN89-426	14.0	17.5	17.5	13.0	15.0
LN89-2395	13.0	17.5	18.2	17.5	14.7
LN89-4764	12.0	17.4	17.6	16.5	13.9
LN89-5447	14.0	18.3	18.6	17.7	16.4
K1225	14.0	17.6	19.5	17.7	18.3
K1226	13.0	16.7	18.1	15.6	15.4
K1227	13.0	18.5	19.0	16.0	16.0
K1228	14.0	19.6	20.2	18.9	17.7
K1229	12.0	14.5	16.2	13.6	14.1
K1230	14.0	20.2	19.2	16.7	16.2
K1231	13.0	19.2	20.5	20.0	19.1
K1232	12.0	17.3	17.3	16.5	16.5
U91-3116	15.0	19.1	20.5	15.7	14.0
U91-3133	13.0	17.6	17.8	16.7	15.9
U91-3212	14.0	17.7	18.4	16.6	14.4
U91-3220	12.0	17.8	19.1	16.2	15.2
U91-3434	15.0	17.6	18.8	17.3	13.6
U91-3516	16.0	19.2	19.9	16.1	15.5
U91-3529	15.0	19.4	19.8	19.8	18.4
U91-3603	13.0	14.8	15.3	13.3	13.7
U91-3607	14.0	20.1	19.3	16.9	16.4
U91-3610	15.0	18.7	19.0	17.0	16.0

PRELIMINARY TEST IIIA, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Flyer (IV)	41.3	41.0	40.9	41.8	41.6
IA2007 (II)	40.1	39.3	40.1	41.7	39.2
Resnik (III)	41.5	41.6	41.0	42.2	41.1
C1856	40.3	40.3	40.1	40.8	40.1
C1857	40.5	39.9	40.8	41.2	40.2
C1858	41.3	40.5	40.4	43.4	40.9
C1859	41.3	41.3	41.0	42.3	40.5
C1860	41.5	41.1	41.0	42.1	41.9
C1862	41.7	41.7	41.3	42.4	41.2
C1863	40.7	41.3	39.7	41.6	40.0
C1864	40.9	40.7	40.5	41.8	40.5
C1865	40.5	39.8	40.0	41.0	41.1
LN88-8125	39.9	38.9	40.2	40.2	40.3
LN88-9230	41.8	42.0	41.1	42.8	41.2
LN88-9883	41.2	41.4	40.5	41.8	41.1
LN88-10410	41.8	41.2	41.9	42.5	41.5
LN88-11336	42.5	42.5	42.0	44.2	41.3
LN89-295	40.7	40.5	40.3	41.3	40.5
LN89-426	40.7	40.4	40.7	41.0	40.5
LN89-2395	39.8	39.8	39.0	40.0	40.5
LN89-4764	42.3	42.2	41.2	43.5	42.1
LN89-5447	41.6	41.0	41.6	42.3	41.3
K1225	40.7	40.0	40.8	41.5	40.5
K1226	40.1	39.8	39.8	40.4	40.2
K1227	42.4	42.4	42.8	42.1	42.1
K1228	40.9	40.8	40.2	41.6	41.0
K1229	40.7	40.0	41.0	41.0	40.6
K1230	40.8	40.8	41.0	40.9	40.4
K1231	41.2	41.4	40.6	41.3	41.4
K1232	39.3	39.1	39.1	40.3	38.7
U91-3116	41.4	41.5	40.8	42.1	41.1
U91-3133	40.8	39.6	40.6	42.0	41.0
U91-3212	41.1	40.8	40.5	42.2	40.7
U91-3220	40.7	40.4	40.8	41.1	40.4
U91-3434	40.6	40.0	40.2	42.1	40.0
U91-3516	42.2	42.0	41.4	42.1	43.2
U91-3529	42.2	41.5	42.0	43.4	41.8
U91-3603	39.9	38.9	40.4	40.1	40.3
U91-3607	41.2	41.0	40.4	42.4	40.8
U91-3610	40.9	40.4	40.5	41.4	41.2

PRELIMINARY TEST IIIA, 1992

OIL (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Flyer (IV)	20.3	19.4	20.9	20.2	20.9
IA2007 (II)	20.5	19.6	20.8	20.4	21.2
Resnik (III)	20.3	19.2	21.6	19.9	20.4
C1856	20.5	19.7	20.9	20.0	21.2
C1857	20.3	19.8	20.2	20.2	21.0
C1858	19.5	18.6	20.4	18.4	20.7
C1859	20.2	19.0	20.6	20.0	21.0
C1860	20.5	19.5	21.0	20.6	20.7
C1862	20.4	19.4	20.8	20.5	20.9
C1863	20.5	19.0	21.3	20.4	21.2
C1864	20.0	18.7	20.8	19.9	20.5
C1865	20.5	19.3	21.5	20.7	20.6
LN88-8125	21.0	20.3	21.2	21.5	20.9
LN88-9230	20.0	19.4	20.4	19.9	20.4
LN88-9883	19.8	18.5	20.4	19.9	20.4
LN88-10410	19.6	19.1	19.6	19.4	20.4
LN88-11336	19.6	18.6	20.1	18.8	20.7
LN89-295	20.1	18.9	20.4	19.9	21.1
LN89-426	20.3	19.0	20.6	20.5	20.9
LN89-2395	21.3	20.1	21.6	21.8	21.8
LN89-4764	19.2	18.1	20.1	18.6	19.8
LN89-5447	19.7	18.2	20.2	19.6	20.9
K1225	21.1	20.1	21.3	21.2	21.9
K1226	20.7	19.5	20.6	21.4	21.4
K1227	20.2	19.0	20.4	21.0	20.5
K1228	19.8	18.9	20.4	19.9	20.1
K1229	20.5	19.5	20.9	20.4	21.3
K1230	20.6	19.0	21.1	21.1	21.3
K1231	20.1	18.9	20.5	20.1	20.9
K1232	20.4	19.3	20.9	19.9	21.5
U91-3116	20.7	19.6	21.1	20.5	21.6
U91-3133	20.8	20.2	20.9	20.4	21.8
U91-3212	20.2	19.2	21.0	19.3	21.1
U91-3220	20.1	19.4	19.7	19.9	21.2
U91-3434	20.9	20.2	21.6	19.9	22.0
U91-3516	20.1	18.8	21.2	19.9	20.3
U91-3529	20.1	19.6	20.4	19.5	20.9
U91-3603	20.1	20.0	20.7	19.4	20.1
U91-3607	20.8	19.6	21.8	20.1	21.6
U91-3610	20.7	19.9	21.1	20.6	21.2

PRELIMINARY TEST IIIB, 1992

Strain	Parentage	Generation Composited	Unique Traits
Flyer (IV)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	BC3 F3	Rps1-k
A91-607001	A86-301024 x Dekalb 226	F5	BSR resis.
A91-607002	A86-303014 x Northrup King S23-03	F5	BSR resis.
A91-701010	A86-301024 x Dekalb 226	F5	BSR resis.
A91-701015	Northrup King S23-03 x A86-301024	F5	BSR resis..
A91-701017	A86-301024 x Dekalb 226	F5	BSR resis.
A91-701035	A86-301024 x Dekalb 226	F5	BSR resis.
A91-701049	A86-303014 x Northrup King S23-03	F5	BSR resis.
A91-702007	Northrup King S23-03 x Asgrow A3205	F5	
A91-702022	Asgrow A3205 x Dairyland DSR 304	F5	
A91-702035	Asgrow A3205 x Dairyland DSR 304	F5	
HM 9189	Will x Asgrow A3127	F5	
HM 9193	Zane x Century 84	F5	
HM 9194	Will x Asgrow A3127	F5	
HM 9196	Will x Asgrow A3127	F5	
HM 9197	HW8372 x HM 8477	F5	
HS89-5689	GR8936[2] x HM8580	BC1 F3	
HS90-3449	Resnik x HS84-6276	F5	
HS90-3484	HS84-6276 x Conrad	F5	
HS90-3487	HS84-6276 x Conrad	F5	
HS90-3489	HS84-6276 x Conrad	F5	
HS90-3679	HM8580 x GR8936	F5	
SL89-1040	Sherman x Asgrow A3205	F5	
SL89-1179	Elgin x Asgrow A3427	F5	
SL89-1825	Hack x Asgrow A3205	F5	
SL89-6136	Asgrow A3427 x Asgrow A3966	F5	
SL90-3640	HS84-6224 x Hamilton	F5	
SL90-3641	HS84-6224 x Hamilton	F5	
Charleston (dtl)	HC74-634RE x HC78-676	F5	dtl
HC85-684	HC78-676 x Asgrow A3127	F5	dtl
HC85-2209	Elf x Williams 82	F5	dtl
HC86-556	L74D-634RE x HC78-676	F5	dtl
HC87-173	HC78-354 x HC78-676	F5	dtl
HC87-392	HC78-676 x Asgrow A3127	F5	dtl
HC87-6082	HC78-676 x Williams 82	F5	dtl
HC88-513	Hobbit 87 x HC78-676BC	F5	dtl
HC88-782	HC80-585 x Sprite 87	F5	dtl
HC88-813	Hobbit 87 x HC80-585	F5	dtl

PRELIMINARY TEST IIIB, 1992

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Germination Lafayette %	Shattering Score Manhattan	BSR-Boone Plant n %	BSR-Boone Stem n %
Flyer (IV)	PTTSYBlI	84	1	100	95.1
IA2007 (II)	PTBDYBrI	72	1	100	98.8
Resnik (III)	PTTIYBlI	80	1	100	95.9
A91-607001	PGBIYIbI	90	1	100	95.6
A91-607002	WTBDYBlI	74	1	100	98.6
A91-701010	PGBDYYI	82	2	100	86.1
A91-701015	PGBIYIbI	82	2	100	97.8
A91-701017	PGBIYIbI	82	2	100	76.7
A91-701035	PGBIYIbI	96	1	60	26.9
A91-701049	PTTDYBl+BrI	82	3	100	68.4
A91-702007	PGBSYBfI	84	3	100	98.7
A91-702022	WTBDYBlI	86	1	100	86.8
A91-702035	WTBDYBlI	82	1	100	88.0
HM9189	PTTDYBlI	90	1	100	92.6
HM9193	PTBIYBlI	96	1	100	97.8
HM9194	PTTDYBlI	88	1	100	90.0
HM9196	PTTDYBlI	80	1	100	84.7
HM9197	PTTDYBlI	86	1	100	95.0
HS89-5689	WTBDYBlI	76	1	100	92.1
HS90-3449	PTBDYBlI	86	1	100	95.0
HS90-3484	PTTDYBrI	88	2	100	98.9
HS90-3487	PTTDYBrI	80	3	100	94.0
HS90-3489	PTTDYBrI	90	1	100	100.0
HS90-3679	PTTDIBlI	78	1	100	100.0
SL89-1040	WTBIYBrI	82	1	100	95.6
SL89-1179	PTTIYBlI	88	1	100	91.3
SL89-1825	PGTSYBfI	86	1	100	95.7
SL89-6136	PTTDYBlI	86	1	100	91.3
SL90-3640	WGTIYBfI	76	1	100	89.9
SL90-3641	WGTIYBfI	84	1	100	100.0
Charleston (dtl)	PTTDYBlD	86	1	100	96.2
HC85-684	PTBDYBlD	80	1	100	87.8
HC85-2209	PTTIYBlD	70	2	100	92.5
HC86-556	WTBIYBlD	76	1	100	79.8
HC87-173	PTTIYBlD	88	1	100	79.7
HC87-392	PTBIYBrD	82	1	100	87.6
HC87-6082	WTTIYBlD	86	1	100	95.7
HC88-513	PTTIYBrD	80	1	100	88.9
HC88-782	WTTIYBlD	86	1	100	100.0
HC88-813	WTTIYBlD	84	1	100	97.1

PRELIMINARY TEST IIIB, 1992

DISEASE DATA

Strain	PR				PS	PSB	SMV
	Phyto. Tolerance NW Branch	Urbana Race 1	Ames Race 4	Lafayette Race 7	Lafayette a %	Lafayette n %	Lafayette a Score
Flyer (IV)	3.5	R	R	R	13	4	3E
IA2007 (II)	3.9	R	S	R	16	2	3E
Resnik (III)	3.6	R	R	R	3	4	1
A91-607001	4.0	R	S	S	3	6	1
A91-607002	4.3	S	S	S	5	12	2M
A91-701010	3.6	R	H	S	8	4	1
A91-701015	3.5	S	S	S	9	4	2M
A91-701017	3.4	S	S	S	5	2	1
A91-701035	4.3	S	H	S	6	2	1
A91-701049	4.9	R	S	S	45	4	1
A91-702007	4.0	S	S	S	13	0	2E
A91-702022	3.9	S	S	S	2	4	2M
A91-702035	3.5	S	S	S	4	8	4S
HM9189	3.6	R	R	R	3	4	1
HM9193	3.4	R	R	R	3	0	4E
HM9194	3.8	R	R	R	10	2	4E
HM9196	5.3	R	S	R	7	2	1
HM9197	3.8	R	R	R	2	2	1
HS89-5689	3.3	R	R	R	15	6	1
HS90-3449	4.3	R	R	R	4	2	1
HS90-3484	3.4	S	S	H	2	0	1
HS90-3487	3.8	H	H	H	2	8	5S
HS90-3489	3.5	S	S	S	2	2	1
HS90-3679	4.9	R	R	R	3	8	1
SL89-1040	3.5	S	S	S	6	10	1
SL89-1179	2.9	H	S	S	5	6	1
SL89-1825	4.0	S	S	S	20	0	2M
SL89-6136	3.8	S	S	S	9	4	3M
SL90-3640	3.6	R	R	S	4	10	1
SL90-3641	3.4	R	R	S	10	2	1
Charleston (dtl)	4.0	S	S	S	0	4	2M
HC85-684	4.0	H	S	S	4	2	1
HC85-2209	3.4	S	S	S	2	10	3M
HC86-556	3.8	S	S	S	20	6	1
HC87-173	4.0	S	S	S	14	0	1
HC87-392	4.3	R	S	S	9	2	1
HC87-6082	4.0	R	R	R	13	0	1
HC88-513	5.3	R	R	R	7	0	1
HC88-782	4.1	R	R	R	6	6	1
HC88-813	5.1	S	S	S	8	10	1

PRELIMINARY TEST IIIB, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
Flyer (IV)	58.2	13	7.7	1.3	37	1.4	15.2	41.7	19.9
IA2007 (II)	57.1	21	-2.7	1.3	35	1.7	17.4	39.9	20.6
Resnik (III)	56.4	26	09/20*	1.2	35	1.5	15.4	41.6	20.0
A91-607001	55.9	29	-0.1	1.3	36	1.5	17.2	40.3	19.9
A91-607002	54.8	36	-3.4	1.7	35	1.7	17.9	40.9	21.1
A91-701010	54.8	36	-1.0	1.4	35	1.8	15.1	40.6	20.0
A91-701015	57.3	18	5.4	2.0	41	1.5	15.7	40.4	20.0
A91-701017	56.1	28	2.7	2.0	37	1.8	16.8	40.3	20.4
A91-701035	60.6	3	-0.4	1.1	31	1.5	18.0	40.5	19.9
A91-701049	58.8	7	6.2	2.1	42	1.9	17.2	41.7	19.9
A91-702007	56.6	25	1.7	1.6	40	1.8	14.8	41.8	20.0
A91-702022	60.8	2	3.1	1.6	38	1.5	15.5	40.4	20.9
A91-702035	58.8	7	3.8	1.4	37	1.7	14.3	40.0	20.4
HM9189	57.2	19	2.9	1.2	36	1.4	15.2	41.6	20.2
HM9193	55.0	34	10.2	2.3	43	1.7	15.9	40.4	20.4
HM9194	57.9	15	6.0	1.4	37	1.6	14.9	41.5	20.1
HM9196	57.2	19	7.6	1.4	37	1.5	15.7	40.9	20.8
HM9197	58.8	7	9.1	1.4	38	1.5	16.2	42.6	20.1
HS89-5689	53.7	39	7.0	2.1	40	1.6	18.7	41.9	20.0
HS90-3449	58.6	11	0.4	1.4	36	1.5	18.3	41.0	20.1
HS90-3484	59.8	4	8.2	1.9	37	1.8	17.1	38.9	20.0
HS90-3487	61.2	1	8.3	2.4	38	1.8	16.0	39.1	20.2
HS90-3489	58.7	10	4.3	1.3	37	1.6	17.9	39.1	20.7
HS90-3679	57.1	21	2.6	1.4	36	1.5	16.2	41.1	20.5
SL89-1040	59.5	5	3.3	1.6	34	1.7	16.7	42.3	20.3
SL89-1179	56.9	24	7.0	1.5	35	1.4	16.9	40.6	19.3
SL89-1825	59.0	6	5.0	1.6	37	1.6	14.0	40.9	20.4
SL89-6136	57.5	16	7.9	1.6	39	1.5	15.4	39.6	21.2
SL90-3640	53.5	40	3.2	1.8	38	1.5	16.8	40.9	20.4
SL90-3641	55.7	30	3.7	1.3	35	1.6	16.9	41.0	20.4
Charleston (dtl)	58.1	14	4.7	1.4	26	1.4	15.4	41.2	19.8
HC85-684	57.4	17	6.2	1.2	28	1.4	15.8	40.6	20.2
HC85-2209	54.4	38	9.2	1.4	25	1.4	17.9	41.1	19.6
HC86-556	55.4	31	4.7	1.3	26	1.5	17.2	42.0	19.9
HC87-173	58.4	12	6.6	1.1	26	1.4	15.2	41.0	20.1
HC87-392	55.3	33	4.8	1.3	27	1.6	16.4	40.6	20.0
HC87-6082	54.9	35	6.9	1.3	26	1.4	16.2	41.8	19.5
HC88-513	55.4	31	5.6	1.1	26	1.5	15.8	40.5	20.6
HC88-782	56.2	27	5.7	1.1	25	1.6	15.5	39.6	21.0
HC88-813	57.1	21	5.8	1.1	26	1.6	18.0	39.6	21.2

* 133.6 Days After Planting

PRELIMINARY TEST IIIB, 1992

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	58.2	51.8	49.1	78.2	54.8	67.1
IA2007 (II)	57.1	53.1	54.7	70.4	49.5	54.6
Resnik (III)	56.4	48.2	50.2	70.5	59.9	55.0
A91-607001	55.9	49.2	54.9	66.3	54.9	63.9
A91-607002	54.8	49.8	45.9	67.9	47.6	57.6
A91-701010	54.8	53.3	49.2	69.3	55.9	63.3
A91-701015	57.3	49.1	46.9	70.2	46.6	60.6
A91-701017	56.1	50.5	46.1	71.3	56.2	66.6
A91-701035	60.6	57.6	54.2	82.7	58.1	60.0
A91-701049	58.8	48.1	51.2	69.5	56.6	57.3
A91-702007	56.6	44.0	47.1	73.9	54.9	60.6
A91-702022	60.8	52.6	47.9	76.1	60.7	69.1
A91-702035	58.8	51.7	51.8	74.6	55.1	69.3
HM9189	57.2	49.8	48.6	74.4	53.9	65.6
HM9193	55.0	47.6	51.4	70.1	48.6	60.4
HM9194	57.9	54.4	48.2	77.1	48.8	64.8
HM9196	57.2	53.7	48.2	73.8	53.2	48.5
HM9197	58.8	54.4	49.5	78.9	53.8	64.5
HS89-5689	53.7	42.5	43.7	67.9	52.3	53.4
HS90-3449	58.6	54.8	51.8	74.8	57.5	54.2
HS90-3484	59.8	54.1	51.2	77.1	51.8	69.9
HS90-3487	61.2	57.0	51.7	76.2	54.3	62.4
HS90-3489	58.7	53.4	51.1	74.9	52.6	64.8
HS90-3679	57.1	55.0	50.2	71.9	52.6	53.7
SL89-1040	59.5	45.9	53.8	76.3	59.1	64.0
SL89-1179	56.9	49.6	46.2	68.0	53.1	59.6
SL89-1825	59.0	56.5	48.8	75.1	58.0	64.5
SL89-6136	57.5	52.2	53.0	75.3	58.0	58.9
SL90-3640	53.5	47.5	48.1	68.8	48.0	63.3
SL90-3641	55.7	49.3	46.3	69.5	51.6	72.9
Charleston (dtl)	58.1	57.8	51.6	73.1	53.5	57.8
HC85-684	57.4	52.5	45.8	68.0	58.2	61.9
HC85-2209	54.4	48.0	43.6	65.5	56.4	60.0
HC86-556	55.4	52.4	47.8	66.5	52.3	56.0
HC87-173	58.4	51.1	46.8	71.7	60.2	60.5
HC87-392	55.3	50.5	50.3	69.2	54.3	57.8
HC87-6082	54.9	48.3	46.2	71.5	48.1	61.7
HC88-513	55.4	54.4	49.6	73.6	55.6	49.3
HC88-782	56.2	55.7	48.1	72.6	46.8	57.5
HC88-813	57.1	53.2	48.8	71.8	54.1	53.1
C.V. (%)		7.0	4.1	5.0	9.7	6.7
L.S.D. (5%)		7.2	4.1	7.4	10.7	6.9
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 1992

YIELD (bu/a)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	45.4	60.0	61.4	53.0	61.1
IA2007 (II)	40.7	62.0	61.5	60.0	64.5
Resnik (III)	46.2	60.7	60.7	57.2	55.4
A91-607001	44.6	58.5	59.7	49.8	56.7
A91-607002	48.8	61.8	62.0	49.4	56.8
A91-701010	54.0	58.0	53.1	38.3	53.3
A91-701015	62.0	62.1	61.4	58.4	55.6
A91-701017	57.2	53.0	64.8	43.2	52.1
A91-701035	54.5	61.4	66.1	50.8	60.8
A91-701049	51.1	62.5	64.4	62.2	65.2
A91-702007	51.9	64.8	58.3	54.7	55.4
A91-702022	55.0	66.6	63.4	51.0	65.4
A91-702035	51.7	60.1	62.1	49.4	62.5
HM9189	49.0	56.4	62.6	49.5	62.4
HM9193	46.1	53.3	52.5	58.0	61.7
HM9194	47.0	60.0	65.5	51.8	61.5
HM9196	46.8	60.6	59.9	62.1	65.6
HM9197	46.5	58.5	59.4	57.1	65.6
HS89-5689	49.0	58.8	59.1	52.4	58.0
HS90-3449	54.3	56.9	69.0	57.4	55.6
HS90-3484	53.6	54.9	65.9	60.8	58.8
HS90-3487	56.8	63.2	73.8	53.7	63.1
HS90-3489	55.7	56.9	61.4	56.2	60.3
HS90-3679	50.6	58.1	58.1	58.4	62.1
SL89-1040	59.9	58.5	66.1	48.6	63.2
SL89-1179	57.8	58.3	58.7	57.5	60.3
SL89-1825	52.0	58.9	67.0	47.7	61.9
SL89-6136	48.7	58.8	63.0	42.4	64.7
SL90-3640	45.6	54.3	54.7	50.4	54.3
SL90-3641	48.1	58.6	61.4	46.3	53.0
Charleston (dtl)	45.0	57.8	71.0	47.9	65.0
HC85-684	44.7	55.8	70.9	60.3	56.1
HC85-2209	43.6	57.3	57.2	54.9	57.5
HC86-556	42.2	58.7	68.3	46.0	63.3
HC87-173	45.8	63.1	65.3	53.1	65.9
HC87-392	48.1	61.8	63.5	38.2	58.8
HC87-6082	45.6	56.5	59.5	53.6	57.9
HC88-513	46.0	57.5	65.6	37.8	64.3
HC88-782	38.6	62.2	61.8	56.2	62.0
HC88-813	48.3	55.6	71.6	53.4	61.2
C.V. (%)	8.1	5.8	6.3	14.2	5.7
L.S.D. (5%)	8.2	9.8	11.4	14.6	6.9
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIB, 1992

YIELD RANK

Strain	Yield Rank	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	13	21	20	3	18	5
IA2007 (II)	21	16	2	26	33	34
Resnik (III)	26	33	15	25	3	33
A91-607001	29	26	1	39	16	13
A91-607002	36	27	37	36	38	29
A91-701010	36	14	19	31	13	14
A91-701015	18	31	31	27	40	19
A91-701017	28	24	36	24	12	6
A91-701035	3	2	3	1	6	23
A91-701049	7	34	11	29	10	31
A91-702007	25	39	30	15	16	19
A91-702022	2	17	28	8	1	4
A91-702035	7	22	6	13	15	3
HM9189	19	27	23	14	22	7
HM9193	34	36	10	28	35	22
HM9194	15	8	24	4	34	8
HM9196	19	12	24	16	25	40
HM9197	7	8	18	2	23	10
HS89-5689	39	40	39	36	29	37
HS90-3449	11	7	6	12	9	35
HS90-3484	4	11	11	4	31	2
HS90-3487	1	3	8	7	19	16
HS90-3489	10	13	13	11	27	8
HS90-3679	21	6	15	20	27	36
SL89-1040	5	38	4	6	4	12
SL89-1179	24	29	34	34	26	25
SL89-1825	6	4	21	10	7	10
SL89-6136	16	20	5	9	7	26
SL90-3640	40	37	26	33	37	14
SL90-3641	30	30	33	30	32	1
Charleston (dtl)	14	1	9	18	24	27
HC85-684	17	18	38	34	5	17
HC85-2209	38	35	40	40	11	23
HC86-556	31	19	29	38	29	32
HC87-173	12	23	32	22	2	21
HC87-392	33	24	14	32	19	27
HC87-6082	35	32	34	23	36	18
HC88-513	31	8	17	17	14	39
HC88-782	27	5	26	19	39	30
HC88-813	21	15	21	21	21	38

PRELIMINARY TEST IIIB, 1992

YIELD RANK

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	33	15	24	21	21
IA2007 (II)	39	8	23	5	8
Resnik (III)	27	12	28	11	36
A91-607001	36	22	30	27	31
A91-607002	19	9	21	29	30
A91-701010	10	27	39	38	38
A91-701015	1	7	24	6	33
A91-701017	4	40	14	36	40
A91-701035	8	11	8	25	22
A91-701049	15	5	15	1	5
A91-702007	13	2	35	16	35
A91-702022	7	1	17	24	4
A91-702035	14	14	20	29	13
HM9189	17	34	19	28	14
HM9193	28	39	40	8	18
HM9194	24	15	12	23	19
HM9196	25	13	29	2	2
HM9197	26	22	32	12	2
HS89-5689	17	18	33	22	27
HS90-3449	9	31	5	10	33
HS90-3484	11	37	10	3	26
HS90-3487	5	3	1	17	12
HS90-3489	6	31	24	13	23
HS90-3679	16	26	36	6	15
SL89-1040	2	22	8	31	11
SL89-1179	3	25	34	9	23
SL89-1825	12	17	7	33	17
SL89-6136	20	18	18	37	7
SL90-3640	31	38	38	26	37
SL90-3641	22	21	24	34	39
Charleston (dtl)	34	28	3	32	6
HC85-684	35	35	4	4	32
HC85-2209	37	30	37	15	29
HC86-556	38	20	6	35	10
HC87-173	30	4	13	20	1
HC87-392	22	9	16	39	25
HC87-6082	31	33	31	18	28
HC88-513	29	29	11	40	9
HC88-782	40	6	22	13	16
HC88-813	21	36	2	19	20

PRELIMINARY TEST IIIB, 1992

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	7.7		8	7	7	9
IA2007 (II)	-2.7		-4	-1	-4	-3
Resnik (III)	09/20		09/22	09/15	09/19	09/17
A91-607001	-0.1		-2	1	0	-1
A91-607002	-3.4		-6	-1	-7	-1
A91-701010	-1.0		-3	1	-3	1
A91-701015	5.4		6	7	1	6
A91-701017	2.7		2	3	2	4
A91-701035	-0.4		-4	1	-1	1
A91-701049	6.2		6	8	8	6
A91-702007	1.7		2	2	1	0
A91-702022	3.1		4	3	5	3
A91-702035	3.8		3	5	5	8
HM9189	2.9		4	2	5	4
HM9193	10.2		12	13	9	9
HM9194	6.0		5	5	6	8
HM9196	7.6		8	5	7	7
HM9197	9.1		12	8	9	8
HS89-5689	7.0		8	8	8	7
HS90-3449	0.4		2	0	2	-1
HS90-3484	8.2		8	9	8	6
HS90-3487	8.3		9	9	8	5
HS90-3489	4.3		6	5	4	3
HS90-3679	2.6		2	2	3	2
SL89-1040	3.3		4	4	7	3
SL89-1179	7.0		6	9	9	5
SL89-1825	5.0		6	8	7	3
SL89-6136	7.9		8	8	11	9
SL90-3640	3.2		4	5	0	7
SL90-3641	3.7		3	4	-1	8
Charleston (dtl)	4.7		7	6	5	3
HC85-684	6.2		8	7	10	3
HC85-2209	9.2		9	8	11	6
HC86-556	4.7		5	6	5	5
HC87-173	6.6		8	7	5	4
HC87-392	4.8		8	4	2	3
HC87-6082	6.9		7	7	6	4
HC88-513	5.6		8	4	9	3
HC88-782	5.7		6	5	2	3
HC88-813	5.8		6	4	5	3
Date Planted	05/09		05/12	05/07	05/08	05/21
Days to Mature	133.6		133	131	134	119

PRELIMINARY TEST IIIB, 1992

MATURITY (date)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	4	8	9	7	10
IA2007 (II)	-5	0	-2	-3	-2
Resnik (III)	09/05	10/03	09/28	09/26	09/17
A91-607001	-3	4	3	-2	-1
A91-607002	-5	-2	-3	-4	-2
A91-701010	-1	2	-3	-2	-1
A91-701015	0	11	10	3	5
A91-701017	-1	7	7	0	0
A91-701035	-1	0	3	-1	-2
A91-701049	0	8	9	4	7
A91-702007	0	5	5	0	0
A91-702022	0	5	5	1	2
A91-702035	-1	6	5	-1	4
HM9189	0	4	5	1	1
HM9193	7	11	13	6	12
HM9194	2	7	7	6	8
HM9196	6	8	10	6	11
HM9197	6	9	11	7	12
HS89-5689	0	9	10	2	11
HS90-3449	0	-1	2	1	-1
HS90-3484	1	10	12	8	12
HS90-3487	5	9	11	6	13
HS90-3489	2	5	8	2	4
HS90-3679	0	6	6	2	0
SL89-1040	0	4	6	-1	3
SL89-1179	6	7	8	4	9
SL89-1825	-1	7	8	0	7
SL89-6136	6	9	5	5	10
SL90-3640	0	6	6	0	1
SL90-3641	3	5	6	3	2
Charleston (dtl)	-1	3	9	2	8
HC85-684	1	7	9	5	6
HC85-2209	2	11	12	12	12
HC86-556	-1	5	8	0	9
HC87-173	5	8	10	2	10
HC87-392	0	9	10	3	4
HC87-6082	2	9	10	6	11
HC88-513	2	8	9	5	2
HC88-782	1	9	11	7	7
HC88-813	4	8	10	4	8
Date Planted	04/29	05/09	05/11	05/15	05/05
Days to Mature	129	147	140	134	135

PRELIMINARY TEST IIIB, 1992

LODGING (score)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.3	1.8	1.5	1.5	1.3	1.0
IA2007 (II)	1.3	1.7	1.5	2.0	1.3	1.1
Resnik (III)	1.2	1.8	1.3	1.0	1.3	1.1
A91-607001	1.3	2.4	1.3	1.5	1.5	1.0
A91-607002	1.7	2.8	2.4	2.0	2.0	1.0
A91-701010	1.4	2.3	1.4	2.0	1.3	1.0
A91-701015	2.0	2.8	2.4	3.0	1.8	1.6
A91-701017	2.0	3.3	1.8	3.0	1.8	1.2
A91-701035	1.1	1.1	1.0	1.0	1.0	1.1
A91-701049	2.1	2.6	2.5	3.0	1.8	2.0
A91-702007	1.6	2.3	1.6	2.0	1.8	1.1
A91-702022	1.6	2.5	1.7	2.0	1.8	1.0
A91-702035	1.4	2.1	1.4	2.0	1.5	1.1
HM9189	1.2	1.5	1.3	1.0	1.0	1.1
HM9193	2.3	2.2	3.0	2.5	1.8	2.1
HM9194	1.4	2.4	1.4	2.0	1.0	1.1
HM9196	1.4	1.8	1.5	1.5	1.5	1.4
HM9197	1.4	2.4	1.3	1.5	1.8	1.1
HS89-5689	2.1	2.6	3.0	3.0	1.8	2.2
HS90-3449	1.4	1.6	1.5	2.0	1.3	1.2
HS90-3484	1.9	2.1	2.1	2.5	1.5	1.4
HS90-3487	2.4	2.5	2.8	3.0	3.0	1.7
HS90-3489	1.3	1.5	1.4	2.5	1.0	1.0
HS90-3679	1.4	1.9	1.5	2.0	1.3	1.1
SL89-1040	1.6	2.4	1.6	1.5	2.0	1.0
SL89-1179	1.5	2.0	1.6	2.5	1.8	1.0
SL89-1825	1.6	2.5	1.6	2.5	1.8	1.2
SL89-6136	1.6	2.5	1.7	2.0	2.0	1.5
SL90-3640	1.8	2.0	1.8	3.0	1.8	2.2
SL90-3641	1.3	1.8	1.4	2.0	1.0	1.3
Charleston (dtl)	1.4	1.5	2.3	2.0	1.0	1.0
HC85-684	1.2	1.4	1.7	1.5	1.0	1.0
HC85-2209	1.4	1.4	2.0	1.5	1.0	1.1
HC86-556	1.3	1.4	2.0	1.5	1.0	1.0
HC87-173	1.1	1.4	1.4	1.0	1.0	1.0
HC87-392	1.3	1.6	2.5	2.0	1.0	1.0
HC87-6082	1.3	1.3	2.2	1.5	1.0	1.1
HC88-513	1.1	1.4	1.6	1.0	1.0	1.0
HC88-782	1.1	1.5	1.4	1.0	1.0	1.1
HC88-813	1.1	1.3	1.4	1.0	1.0	1.0

PRELIMINARY TEST IIIB, 1992

LODGING (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	1.0	1.0	1.5	1.3	1.3
IA2007 (II)	1.0	1.0	1.0	1.2	1.0
Resnik (III)	1.0	1.0	1.0	1.3	1.3
A91-607001	1.0	1.0	1.0	1.1	1.5
A91-607002	1.0	1.0	1.5	1.5	2.0
A91-701010	1.0	1.0	1.0	1.1	1.5
A91-701015	1.0	1.0	2.0	1.6	2.8
A91-701017	1.0	1.0	3.0	1.2	2.8
A91-701035	1.0	1.0	1.0	1.4	1.0
A91-701049	1.0	1.0	2.5	2.8	2.0
A91-702007	1.0	1.0	1.5	1.7	2.0
A91-702022	1.0	1.0	2.0	1.4	1.5
A91-702035	1.0	1.0	1.0	1.4	1.3
HM9189	1.0	1.0	1.0	1.3	1.3
HM9193	1.0	1.0	3.0	2.9	3.0
HM9194	1.0	1.0	1.0	1.6	1.3
HM9196	1.0	1.0	1.0	1.5	1.5
HM9197	1.0	1.0	1.0	1.7	1.5
HS89-5689	1.0	1.0	2.0	2.1	2.3
HS90-3449	1.0	1.0	1.0	1.6	1.3
HS90-3484	1.0	1.5	2.5	2.0	2.0
HS90-3487	1.0	1.5	3.0	2.6	3.3
HS90-3489	1.0	1.0	1.0	1.3	1.5
HS90-3679	1.0	1.0	1.0	1.7	1.5
SL89-1040	1.0	1.0	2.0	1.3	1.8
SL89-1179	1.0	1.0	1.0	1.5	2.0
SL89-1825	1.0	1.5	1.5	1.3	1.3
SL89-6136	1.0	1.0	1.5	1.2	1.5
SL90-3640	1.0	1.5	1.0	1.8	1.5
SL90-3641	1.0	1.0	1.0	1.1	1.3
Charleston (dtl)	1.0	1.0	1.0	1.5	1.5
HC85-684	1.0	1.0	1.0	1.7	1.0
HC85-2209	1.0	1.0	1.0	2.2	1.5
HC86-556	1.0	1.0	1.0	1.4	1.3
HC87-173	1.0	1.0	1.0	1.3	1.0
HC87-392	1.0	1.0	1.0	1.2	1.0
HC87-6082	1.0	1.0	1.0	1.5	1.0
HC88-513	1.0	1.0	1.0	1.1	1.0
HC88-782	1.0	1.0	1.0	1.3	1.0
HC88-813	1.0	1.0	1.0	1.3	1.0

PRELIMINARY TEST IIIB, 1992

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	37	42	42	44	35	34
IA2007 (II)	35	47	37	39	38	31
Resnik (III)	35	42	40	41	38	31
A91-607001	36	41	39	39	37	34
A91-607002	35	42	36	36	35	33
A91-701010	35	40	36	39	39	32
A91-701015	41	48	42	44	40	38
A91-701017	37	44	40	42	38	34
A91-701035	31	38	33	36	32	28
A91-701049	42	49	43	46	42	39
A91-702007	40	47	44	45	42	31
A91-702022	38	45	42	44	39	32
A91-702035	37	43	42	45	38	32
HM9189	36	41	42	43	37	31
HM9193	43	50	42	48	43	35
HM9194	37	44	40	41	37	32
HM9196	37	42	42	45	36	31
HM9197	38	44	42	43	38	34
HS89-5689	40	48	41	44	45	35
HS90-3449	36	44	40	41	37	29
HS90-3484	37	42	38	41	36	35
HS90-3487	38	48	38	43	39	34
HS90-3489	37	46	38	41	38	33
HS90-3679	36	42	40	39	37	31
SL89-1040	34	42	38	40	37	31
SL89-1179	35	44	40	37	36	30
SL89-1825	37	42	40	42	38	34
SL89-6136	39	44	42	45	38	33
SL90-3640	38	48	36	37	40	33
SL90-3641	35	44	38	41	37	30
Charleston (dtl)	26	34	32	27	30	21
HC85-684	28	34	33	29	32	24
HC85-2209	25	32	28	26	28	22
HC86-556	26	33	32	25	29	23
HC87-173	26	32	30	27	24	21
HC87-392	27	34	33	26	29	22
HC87-6082	26	32	28	28	28	20
HC88-513	26	36	32	26	29	17
HC88-782	25	30	31	26	27	19
HC88-813	26	32	32	25	29	20

PRELIMINARY TEST IIIB, 1992

PLANT HEIGHT (inches)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	35	35	41	29	33
IA2007 (II)	27	34	36	31	31
Resnik (III)	31	32	36	31	32
A91-607001	31	37	38	29	35
A91-607002	32	37	37	28	32
A91-701010	33	37	38	26	34
A91-701015	36	39	44	36	38
A91-701017	35	36	39	27	38
A91-701035	28	30	31	24	29
A91-701049	36	40	44	39	39
A91-702007	37	40	41	35	35
A91-702022	35	36	41	29	35
A91-702035	32	34	39	29	34
HM9189	33	35	36	29	34
HM9193	38	41	49	39	41
HM9194	34	36	42	31	35
HM9196	36	35	37	31	34
HM9197	35	34	38	32	35
HS89-5689	37	37	43	36	38
HS90-3449	34	30	35	36	32
HS90-3484	34	36	43	28	32
HS90-3487	36	35	40	34	35
HS90-3489	33	35	38	31	33
HS90-3679	31	34	38	33	35
SL89-1040	31	29	36	25	35
SL89-1179	36	33	36	29	32
SL89-1825	34	36	41	27	31
SL89-6136	40	38	43	26	39
SL90-3640	37	39	42	35	36
SL90-3641	29	33	36	24	33
Charleston (dtl)	19	22	27	24	24
HC85-684	24	26	26	28	25
HC85-2209	20	21	25	26	20
HC86-556	23	25	25	23	24
HC87-173	24	23	28	25	24
HC87-392	21	28	26	23	26
HC87-6082	22	27	27	25	23
HC88-513	22	24	26	24	22
HC88-782	16	26	25	26	22
HC88-813	23	22	26	25	24

PRELIMINARY TEST IIIB, 1992

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.4	1.6	1.4	1.4	1.0	2.0
IA2007 (II)	1.7	1.5	1.4	1.2	1.5	3.0
Resnik (III)	1.5	1.7	1.7	1.2	1.0	2.0
A91-607001	1.5	1.5	1.3	1.2	1.0	2.0
A91-607002	1.7	1.4	1.3	1.4	1.0	2.0
A91-701010	1.8	1.7	1.6	1.2	1.0	3.0
A91-701015	1.5	1.4	1.2	1.2	1.0	2.0
A91-701017	1.8	1.5	1.9	1.2	1.5	3.0
A91-701035	1.5	1.4	1.1	1.2	1.0	2.0
A91-701049	1.9	1.9	1.9	2.0	1.5	2.0
A91-702007	1.8	1.8	1.4	1.2	1.5	3.0
A91-702022	1.5	1.5	1.3	1.2	1.0	3.0
A91-702035	1.7	1.5	1.4	1.4	1.0	2.0
HM9189	1.4	1.5	1.3	1.4	1.0	2.0
HM9193	1.7	1.3	1.9	1.4	1.0	2.0
HM9194	1.6	1.5	1.2	1.4	1.0	2.0
HM9196	1.5	1.4	1.8	1.6	1.0	2.0
HM9197	1.5	1.7	1.6	1.4	1.0	2.0
HS89-5689	1.6	1.7	1.3	1.4	1.0	3.0
HS90-3449	1.5	1.5	1.5	1.2	1.0	2.0
HS90-3484	1.8	2.1	1.6	1.2	1.0	2.0
HS90-3487	1.8	2.4	2.0	1.4	1.0	2.0
HS90-3489	1.6	1.9	1.8	1.4	1.0	3.0
HS90-3679	1.5	2.0	1.2	1.2	1.0	2.0
SL89-1040	1.7	1.5	1.9	1.2	1.0	3.0
SL89-1179	1.4	1.4	1.4	1.5	1.0	2.0
SL89-1825	1.6	1.6	1.4	1.4	1.0	2.0
SL89-6136	1.5	1.3	1.8	1.6	1.0	2.0
SL90-3640	1.5	1.6	1.2	1.2	1.0	2.0
SL90-3641	1.6	1.3	1.3	1.4	1.0	2.0
Charleston (dtl)	1.4	1.7	1.3	1.2	1.0	2.0
HC85-684	1.4	1.3	1.2	1.2	1.0	2.0
HC85-2209	1.4	1.6	1.3	1.4	1.0	2.0
HC86-556	1.5	2.1	1.3	1.2	1.0	2.0
HC87-173	1.4	2.3	1.2	1.2	1.0	2.0
HC87-392	1.6	1.5	1.3	1.2	1.0	2.0
HC87-6082	1.4	1.4	1.4	1.4	1.0	2.0
HC88-513	1.5	1.4	1.2	1.5	1.0	2.0
HC88-782	1.6	1.7	1.5	1.4	1.0	2.0
HC88-813	1.6	1.5	1.3	1.2	1.0	3.0

PRELIMINARY TEST IIIB, 1992

SEED QUALITY (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	2.0	1.0	1.0	1.2	1.5
IA2007 (II)	3.0	1.0	2.0	1.3	1.5
Resnik (III)	3.0	1.0	1.0	1.2	1.5
A91-607001	3.0	1.5	1.0	1.2	1.5
A91-607002	3.0	2.0	2.0	1.6	1.5
A91-701010	3.0	1.0	2.0	2.0	1.5
A91-701015	3.0	1.0	1.5	1.3	1.5
A91-701017	3.0	1.0	1.0	1.7	2.0
A91-701035	2.0	1.0	1.5	2.4	1.5
A91-701049	3.0	1.0	1.5	1.8	2.0
A91-702007	3.0	1.0	1.5	2.0	2.0
A91-702022	2.0	1.0	1.0	1.7	1.5
A91-702035	3.0	1.0	1.5	2.1	2.0
HM9189	2.0	1.0	1.0	1.4	1.5
HM9193	2.0	1.5	2.0	1.2	2.5
HM9194	3.0	1.0	1.0	1.7	2.0
HM9196	2.0	1.0	1.0	1.2	1.5
HM9197	2.0	1.0	1.0	1.2	2.0
HS89-5689	2.0	1.5	1.0	1.4	2.0
HS90-3449	3.0	1.0	1.0	1.3	1.5
HS90-3484	3.0	1.0	2.0	1.1	2.5
HS90-3487	3.0	1.0	1.5	1.3	2.0
HS90-3489	2.0	1.0	1.5	1.1	1.8
HS90-3679	2.0	1.0	1.5	1.3	1.5
SL89-1040	3.0	1.0	1.0	1.6	1.5
SL89-1179	2.0	1.0	1.0	1.1	2.0
SL89-1825	3.0	1.0	1.0	1.5	2.0
SL89-6136	2.0	1.0	1.0	1.5	1.5
SL90-3640	3.0	1.0	1.0	1.6	1.5
SL90-3641	3.0	1.0	1.0	1.4	2.5
Charleston (dtl)	2.0	1.0	1.0	1.3	1.2
HC85-684	2.0	1.0	1.0	1.3	1.5
HC85-2209	2.0	1.0	1.5	1.3	1.3
HC86-556	2.0	1.0	2.0	1.2	1.2
HC87-173	2.0	1.0	1.0	1.1	1.3
HC87-392	2.0	1.5	1.5	2.2	1.5
HC87-6082	2.0	1.0	1.0	1.1	1.5
HC88-513	3.0	1.0	1.0	1.8	1.5
HC88-782	3.0	2.0	1.0	1.2	1.2
HC88-813	3.0	1.0	1.0	1.2	1.5

PRELIMINARY TEST IIIB, 1992

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair-field IA	Winter-set IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	15.2	15.6	14.4	16.3	14.1	15.0
IA2007 (II)	17.4	16.7	15.7	19.0	16.8	16.0
Resnik (III)	15.4	14.9	14.6	17.0	14.7	14.8
A91-607001	17.2	16.0	16.2	19.1	17.3	16.4
A91-607002	17.9	16.3	16.8	21.8	16.3	18.1
A91-701010	15.1	14.5	14.6	16.8	14.6	14.9
A91-701015	15.7	15.0	15.8	17.1	13.5	15.2
A91-701017	16.8	17.2	15.8	18.4	16.6	16.4
A91-701035	18.0	16.6	16.9	19.7	18.3	17.3
A91-701049	17.2	16.4	16.3	17.8	17.4	15.8
A91-702007	14.8	15.0	14.4	16.1	13.7	14.2
A91-702022	15.5	15.2	15.2	17.4	14.0	15.3
A91-702035	14.3	14.3	14.2	15.3	12.5	15.3
HM9189	15.2	14.4	14.6	17.4	14.0	15.7
HM9193	15.9	16.0	14.6	17.5	14.3	16.3
HM9194	14.9	14.8	14.0	16.4	13.5	14.4
HM9196	15.7	15.3	14.7	17.1	15.4	15.1
HM9197	16.2	16.2	16.0	17.8	14.9	15.9
HS89-5689	18.7	19.0	18.0	20.3	18.0	18.0
HS90-3449	18.3	18.4	18.1	20.5	16.7	17.0
HS90-3484	17.1	17.6	16.6	17.8	16.3	16.4
HS90-3487	16.0	15.8	14.9	17.6	15.3	15.4
HS90-3489	17.9	17.7	17.4	20.0	17.1	17.2
HS90-3679	16.2	15.4	16.3	17.6	14.9	15.0
SL89-1040	16.7	16.0	16.2	18.3	16.2	15.8
SL89-1179	16.9	17.7	16.2	18.4	15.6	16.3
SL89-1825	14.0	13.0	13.1	15.6	12.7	14.8
SL89-6136	15.4	15.3	14.5	17.8	14.8	16.0
SL90-3640	16.8	16.2	15.6	18.6	15.3	17.2
SL90-3641	16.9	16.2	16.0	19.3	14.7	18.0
Charleston (dtl)	15.4	15.0	14.2	17.2	15.4	14.3
HC85-684	15.8	14.8	14.9	17.5	15.6	15.0
HC85-2209	17.9	17.0	16.6	19.6	17.8	18.1
HC86-556	17.2	16.0	15.4	20.2	15.9	16.8
HC87-173	15.2	14.4	14.4	16.3	14.4	14.9
HC87-392	16.4	15.0	15.6	17.6	15.5	16.8
HC87-6082	16.2	15.0	14.5	18.3	14.6	15.3
HC88-513	15.8	15.1	15.3	17.8	15.0	14.3
HC88-782	15.5	14.4	14.7	17.5	14.2	14.4
HC88-813	18.0	16.6	16.6	19.3	16.4	17.0

PRELIMINARY TEST IIIB, 1992

SEED SIZE (g/100)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	12.0	16.2	17.5	15.2	15.4
IA2007 (II)	15.0	19.6	19.9	17.8	17.9
Resnik (III)	13.0	17.1	16.9	14.8	15.7
A91-607001	14.0	19.6	19.6	17.1	17.1
A91-607002	14.0	21.2	20.3	17.7	16.6
A91-701010	14.0	15.9	16.8	14.6	13.9
A91-701015	14.0	17.0	17.9	16.1	15.2
A91-701017	14.0	17.7	20.5	15.1	15.8
A91-701035	16.0	19.8	20.0	18.1	17.6
A91-701049	14.0	19.5	18.8	18.5	17.6
A91-702007	13.0	15.6	17.1	15.5	13.8
A91-702022	14.0	16.4	16.4	15.6	15.0
A91-702035	13.0	15.5	15.5	13.8	14.0
HM9189	13.0	16.2	16.8	15.3	15.0
HM9193	15.0	16.2	17.1	17.0	15.4
HM9194	14.0	16.3	16.6	14.4	14.4
HM9196	13.0	17.0	17.7	15.2	16.8
HM9197	13.0	17.0	18.4	15.7	16.9
HS89-5689	15.0	19.9	20.1	18.5	19.8
HS90-3449	16.0	19.1	20.5	18.6	18.0
HS90-3484	14.0	18.3	18.5	18.2	16.8
HS90-3487	13.0	17.0	18.9	16.9	15.4
HS90-3489	14.0	19.6	20.8	18.0	17.0
HS90-3679	14.0	17.1	18.6	17.6	15.8
SL89-1040	14.0	17.6	19.7	17.2	16.4
SL89-1179	14.0	18.8	19.5	16.6	15.9
SL89-1825	13.0	15.7	15.6	13.4	12.9
SL89-6136	13.0	15.8	16.3	14.5	15.5
SL90-3640	15.0	19.1	18.4	16.5	15.7
SL90-3641	15.0	18.1	18.8	17.4	15.2
Charleston (dtl)	14.0	15.8	17.3	15.0	15.7
HC85-684	15.0	16.7	17.3	15.3	15.9
HC85-2209	15.0	19.5	20.1	16.8	18.1
HC86-556	16.0	18.4	19.7	15.9	17.8
HC87-173	14.0	16.2	16.4	16.0	15.4
HC87-392	16.0	17.3	18.8	14.5	16.4
HC87-6082	16.0	16.9	17.9	16.3	16.7
HC88-513	15.0	16.1	17.4	15.9	16.0
HC88-782	16.0	16.9	16.9	15.4	15.1
HC88-813	20.0	18.4	20.1	17.5	17.8

PRELIMINARY TEST IIIB, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Flyer (IV)	41.7	41.5	41.5	42.2	41.5
IA2007 (II)	39.9	39.1	40.1	41.0	39.5
Resnik (III)	41.6	41.4	41.3	42.6	41.0
A91-607001	40.3	40.0	40.1	41.0	40.0
A91-607002	40.9	41.2	41.1	41.0	40.4
A91-701010	40.6	40.4	40.2	41.3	40.4
A91-701015	40.4	39.7	41.1	41.3	39.6
A91-701017	40.3	40.0	40.1	40.8	40.3
A91-701035	40.5	40.0	40.3	41.3	40.3
A91-701049	41.7	41.0	41.7	42.7	41.5
A91-702007	41.8	42.9	41.8	42.0	40.6
A91-702022	40.4	40.3	39.9	41.5	40.0
A91-702035	40.0	39.9	39.4	40.5	40.2
HM9189	41.6	41.4	41.4	42.2	41.2
HM9193	40.4	39.5	40.5	40.6	40.8
HM9194	41.5	41.0	41.4	42.3	41.1
HM9196	40.9	40.6	40.6	41.4	40.8
HM9197	42.6	42.2	42.1	43.3	42.6
HS89-5689	41.9	41.7	41.5	42.3	42.1
HS90-3449	41.0	40.5	41.1	41.9	40.6
HS90-3484	38.9	38.6	38.6	39.7	38.5
HS90-3487	39.1	38.9	38.5	39.8	39.1
HS90-3489	39.1	39.0	39.0	39.8	38.5
HS90-3679	41.1	40.6	41.3	42.0	40.4
SL89-1040	42.3	42.1	42.9	42.5	41.8
SL89-1179	40.6	41.0	40.3	41.4	39.8
SL89-1825	40.9	40.7	40.5	41.6	40.6
SL89-6136	39.6	38.7	39.2	40.5	40.0
SL90-3640	40.9	40.7	40.3	42.2	40.2
SL90-3641	41.0	40.3	40.9	41.7	41.1
Charleston (dtl)	41.2	40.8	41.0	42.3	40.5
HC85-684	40.6	40.1	40.6	41.0	40.8
HC85-2209	41.1	39.7	41.8	41.9	41.0
HC86-556	42.0	41.2	42.6	42.2	42.0
HC87-173	41.0	41.3	41.0	41.4	40.3
HC87-392	40.6	40.6	40.5	41.8	39.5
HC87-6082	41.8	41.1	42.4	42.5	41.1
HC88-513	40.5	40.0	40.8	40.7	40.6
HC88-782	39.6	38.5	39.8	40.3	39.6
HC88-813	39.6	39.5	39.5	39.9	39.5

PRELIMINARY TEST IIIB, 1992

OIL (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Manhattan KS
Flyer (IV)	19.9	18.9	20.4	19.7	20.6
IA2007 (II)	20.6	19.4	20.9	20.6	21.5
Resnik (III)	20.0	19.1	20.7	19.9	20.3
A91-607001	19.9	18.4	20.6	19.7	20.9
A91-607002	21.1	19.5	21.2	22.0	21.5
A91-701010	20.0	19.3	21.1	19.5	20.1
A91-701015	20.0	19.2	20.0	19.7	21.0
A91-701017	20.4	19.1	20.2	20.2	21.9
A91-701035	19.9	19.0	20.0	20.0	20.4
A91-701049	19.9	19.4	20.4	19.8	19.9
A91-702007	20.0	18.3	20.7	19.7	21.1
A91-702022	20.9	19.7	21.6	20.8	21.5
A91-702035	20.4	19.6	21.1	19.8	21.1
HM9189	20.2	19.4	20.6	19.8	20.9
HM9193	20.4	20.0	20.9	20.1	20.7
HM9194	20.1	19.7	20.7	19.6	20.5
HM9196	20.8	19.9	21.2	20.7	21.3
HM9197	20.1	19.5	20.7	19.7	20.5
HS89-5689	20.0	18.7	20.5	20.5	20.3
HS90-3449	20.1	18.9	20.0	20.3	21.0
HS90-3484	20.0	19.0	20.3	19.6	20.9
HS90-3487	20.2	18.9	20.5	19.6	21.6
HS90-3489	20.7	19.4	21.3	20.7	21.2
HS90-3679	20.5	20.0	20.9	20.1	21.0
SL89-1040	20.3	19.2	20.1	20.8	21.0
SL89-1179	19.3	18.0	19.6	19.6	20.0
SL89-1825	20.4	19.5	21.2	20.0	21.0
SL89-6136	21.2	19.9	21.5	21.9	21.4
SL90-3640	20.4	19.7	20.8	19.9	21.3
SL90-3641	20.4	20.0	20.6	20.3	20.8
Charleston (dtl)	19.8	18.6	20.5	19.4	20.7
HC85-684	20.2	19.7	20.7	19.9	20.5
HC85-2209	19.6	18.8	19.7	18.7	21.0
HC86-556	19.9	19.1	19.8	20.0	20.5
HC87-173	20.1	18.7	20.5	20.1	21.0
HC87-392	20.0	18.7	20.4	19.8	21.1
HC87-6082	19.5	19.0	19.2	19.2	20.5
HC88-513	20.6	19.7	20.9	20.4	21.4
HC88-782	21.0	20.5	21.1	20.7	21.7
HC88-813	21.2	20.3	21.6	21.0	22.0

UNIFORM TEST IV, 1992

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Delsoy 4210 (SCN)	(Williams x PI 88.788) x (Union x Douglas)	4	F6	SCN 3,4
Flyer (E)	Asgrow A3127[4] x Williams 82	5	BC3 F2	Rps1-k
Ripley (dt_1)	Hodgson x V68-1034	-	F5	dt1
Spencer (IV)	A75-305022 x Century	7	F5	
Spry (L)	L78-8694 x L78L-449	4	F6	
C1804	Bradley x L80-4323	1	F4	SCN Res.
C1841	(Spencer[2] x Pella 86) x Resnik	PT IVB	F5	Rps1-k
C1842	(Spencer[2] x Pella 86) x Resnik	PT IIIB	F5	Rps1-k
C1851	Spencer[3] x Pella 86	PT IVB	F5	Rps1-k
HC85-6571	HC78-350 x HC78-676	PT IVB	F5	dt1
HC86-3403	HC78-279 x Asgrow A3127	1	F5	Dt1
HC87-3212	Essex x Asgrow A3127	1	F5	dt1
HC87-3330	Coker 237 x HC78-676	PT IVB	F5	dt1
HS89-5467	HS84-6276 x Conrad	PT IVA	F5	
K1191	Sherman x Toano	1	F5	
K1212	Sherman x Hutcheson	PT IVA	F5	
K1213	Hutcheson x Asgrow A3427	PT IVA	F5	
Ky88-1195	Dekalb Pfizer CX415 x FFR561	PT IVB	F5	
Ky88-5037	Asgrow A4595 x Dekalb Pfizer CX445	PT IVB	F5	
LN88-7616	Hack x HW8221	PT IVA	F5	Rps?
LS86-1922	Pyramid x LS78-W124-1	1	F6	SCN 3, 14
LS87-1123	Fayette x Pyramid	PT IVA	F6	SCN Res.
LS87-1311	Fayette x Pyramid	1	F5	SCN 3
LS88-213	LS79-220 x Fayette	SCN PTIV	F6	SCN 3
LS88-240	LS79-220 x Fayette	PT IVA	F6	SCN Res.
LS88-519	LS79-330 x Fayette	SCN PTIV	F6	SCN 3
Md88-5241	Spencer x Delsoy 4900	PT IVA	F5	
S86-4496	(L77-443 x L77-906) x Pella	1	F6	SCN 4,14
S86-4499	(L77-443 x L77-906) x Pella	1	F6	SCN 4,14
S88-19561	Forrest[3] x PI 437.654	SCN PTIV	F6	SCN all

* Number of years in test or name of 1991 test.

UNIFORM TEST IV, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Germination	Shattering Score		Chlorosis Score
		Lafayette	Lubbock	Man-hattan	Hanska
		%			
Delsoy 4210	WTBDYBlI	82	2.5	1	3.0
Flyer (E)	PTTSYBlI	84	2.0	1	4.0
Ripley (dtl)	PGTIYBfD	94	2.5	1	3.5
Spencer (IV)	WTBDYBrI	84	2.5	1	2.8
Spry (L)	PTTDYBlD	84	2.7	2	3.0
C1804	WTTIYBlI	78	4.0	1	3.8
C1841	WTTDYBrI	78	2.7	1	2.5
C1842	PTTDYBlI	86	2.5	1	3.5
C1851	PTBDYBl+BrI	88	2.5	1	2.5
HC85-6571	PTTDYBrD	78	2.2	1	3.0
HC86-3403(DT1)	PTTDYBlI	88	2.0	1	2.3
HC87-3212	PTTIYBlD	68	2.2	1	2.5
HC87-3330	PTTIYBlD	56	2.5	1	2.5
HS89-5467	PTTDYBrI	84	3.5	1	3.5
K1191	WGBDYBfI	68	2.2	1	2.8
K1212	WGBDYBfI	98	2.2	1	3.3
K1213	PTTDYBlI	90	2.0	1	2.8
Ky88-1195	WTTDYBlI	94	3.0	2	2.5
Ky88-5037	WTTDYBlI	96	2.5	1	3.5
LN88-7616	WGTSYBfI	88	3.0	2	3.3
LS86-1922	PTTDYBlI	78	2.7	1	2.5
LS87-1123	WTTDYBlI	94	4.0	1	2.5
LS87-1311	P+WTTSYBlI	84	3.7	1	2.5
LS88-213	WGTSYBfD	86	3.7	1	2.5
LS88-240	WGTSYBfD	90	3.0	1	2.3
LS88-519	PTBSYBrD	86	2.5	1	3.8
Md88-5241	PTTSYBlI	78	2.0	1	3.3
S86-4496	PTTDYBlI	90	3.5	1	3.5
S86-4499	PTTDYBlI	86	3.0	1	3.8
S88-19561	PTBDYBlI	84	4.0	1	3.0

UNIFORM TEST IV, 1992

DISEASE DATA

Strain	Emerg. Score Ames	PR Phyto. Tol. NW Branch	PR Urbana Race 1	PR Laf. Race 7	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Delsoy 4210	2	2.9	R	S	2	2	1
Flyer (E)	1	2.8	R	R	13	4	3E
Ripley (dtl)	1	3.1	S	S	0	0	4M
Spencer (IV)	5	2.4	S	S	15	4	2M
Spry (L)	1	2.9	S	S	3	2	3E
C1804	5	2.8	R	S	6	8	1
C1841	5	3.1	R	R	18	4	1
C1842	4	4.9	R	R	2	6	1
C1851	5	2.8	R	R	9	4	2M
HC85-6571	2	3.9	S	S	6	8	2M
HC86-3403(DT1)	1	3.8	S	S	3	4	1
HC87-3212	1	3.5	S	S	15	8	3E
HC87-3330	5	3.9	R	S	8	8	2E
HS89-5467	2	3.1	S	S	13	6	4S
K1191	4	3.0	S	S	10	10	3M
K1212	2	3.5	S	S	2	0	2M
K1213	2	3.0	S	S	16	0	1
Ky88-1195	3	2.9	S	S	4	0	2S
Ky88-5037	1	2.3	R	R	3	0	3E
LN88-7616	2	3.1	R	S	8	0	1
LS86-1922	3	4.5	S	S	0	2	3S
LS87-1123	1	2.6	S	S	2	0	1
LS87-1311	3	3.5	R	S	5	0	3E
LS88-213	1	3.0	S	S	0	0	1
LS88-240	3	3.4	S	S	2	2	2M
LS88-519	2	2.6	R	R	0	0	4M
Md88-5241	1	3.5	R	S	16	2	1
S86-4496	5	3.3	R	R	5	2	5S
S86-4499	5	3.4	R	S	8	4	2M
S88-19561	5	6.8	H	H	2	2	1

UNIFORM TEST IV, 1992

SUDDEN DEATH SYNDROME

Strain	Ridgway		Cora				
	I %	S score	R6Date	R6DI	R6DS	R6DX	DX Rank
Delsoy 4210	21.7	3.3	99	27	1.1	2.6	10
Flyer (E)	40.0	3.7	96	50	1.2	6.5	20
Ripley (dtl)	1.0	1.0	96	1	0.9	-0.9	1
Spencer (IV)	60.0	6.0	96	60	1.8	12.2	26
Spry (L)	30.0	3.7	97	74	1.6	13.4	27
C1804	43.3	4.3	97	81	1.8	16.2	29
C1841	76.7	6.0	94	60	1.3	8.9	22
C1842	46.7	4.0	94	32	1.3	4.5	14
C1851	79.7	6.7	94	75	1.3	11.0	25
HC85-6571	70.0	5.0	91	62	1.3	9.0	23
HC86-3403(DT1)	40.0	3.7	97	15	1.3	2.5	9
HC87-3212	10.0	2.7	92	22	1.2	3.2	11
HC87-3330	70.0	5.0	90	16	1.1	1.8	8
HS89-5467	80.0	6.0	94	90	1.8	17.9	30
K1191	2.3	1.3	100	5	1.0	0.2	2
K1212	3.7	2.0	100	21	1.1	2.5	9
K1213	53.3	4.7	100	67	1.4	10.5	24
Ky88-1195	56.7	2.3	97	12	1.1	1.6	6
Ky88-5037	63.3	5.0	101	22	1.2	3.2	11
LN88-7616	46.7	4.7	98	23	1.3	3.4	13
LS86-1922	23.7	3.0	102	38	1.3	5.8	19
LS87-1123	15.0	3.0	101	24	1.2	3.3	12
LS87-1311	36.7	3.7	99	35	1.2	5.2	15
LS88-213	30.0	3.7	102	62	1.3	8.9	22
LS88-240	8.7	2.3	99	8	1.2	1.1	5
LS88-519	1.0	1.0	103	10	1.2	1.8	8
Md88-5241	31.7	3.3	98	10	1.2	1.6	6
S86-4496	46.7	4.0	100	68	1.4	8.2	21
S86-4499	46.7	4.0	101	47	1.2	5.4	16
S88-19561	40.0	1.3	103	38	1.3	5.6	17

UNIFORM TEST IV, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 20 bu/a	Rank 20 No.	Maturity 17 Date	Lodging 20 Score	Plant Height 20 In.	Seed Quality 20 Score	Seed Size 19 g/100	Composition Protein 5 %	 Oil 5 %
Delsoy 4210	52.9	9	3.5	2.5	39	2.1	17.8	41.7	20.7
Flyer (E)	52.2	14	-2.8	1.3	32	1.6	14.7	41.7	20.5
Ripley (dtl)	50.1	25	0.4	1.4	26	1.4	13.7	39.3	20.8
Spencer (IV)	52.6	11	09/24*	1.4	35	2.0	17.8	41.4	20.8
Spry (L)	51.8	19	8.3	2.9	35	2.1	16.5	41.3	20.2
C1804	50.8	22	1.2	2.2	39	1.8	16.4	41.9	19.9
C1841	52.0	17	-1.4	1.7	34	2.0	16.1	41.5	21.0
C1842	53.6	8	-4.6	1.3	32	1.9	17.2	40.7	20.8
C1851	52.2	14	-1.3	1.4	34	1.9	17.3	41.4	20.8
HC85-6571	45.8	29	-4.9	1.1	19	2.1	16.6	40.8	21.0
HC86-3403(DT1)	54.9	5	-0.2	1.5	35	1.9	16.8	42.7	20.9
HC87-3212	51.5	20	0.1	1.3	23	2.0	18.7	40.8	21.4
HC87-3330	52.1	16	-2.2	1.3	24	1.8	16.9	39.4	20.8
HS89-5467	55.6	4	-2.2	1.5	33	1.9	15.4	38.4	20.8
K1191	56.1	2	7.1	1.8	35	1.9	16.9	41.7	20.4
K1212	51.4	21	5.8	1.8	34	1.8	13.8	41.7	20.1
K1213	54.4	6	1.1	1.7	36	1.7	15.2	41.5	20.4
Ky88-1195	55.7	3	3.6	1.4	37	1.7	16.4	42.6	20.3
Ky88-5037	56.9	1	7.0	2.3	40	1.9	15.2	40.6	20.4
LN88-7616	52.3	12	1.2	2.0	35	1.8	16.7	40.3	20.2
LS86-1922	50.2	24	6.9	3.0	42	1.9	15.1	39.8	20.2
LS87-1123	52.3	12	6.4	2.7	41	1.7	15.1	40.4	20.5
LS87-1311	50.6	23	2.8	1.8	38	1.8	15.0	39.8	20.7
LS88-213	47.7	28	10.6	2.5	36	1.9	14.1	39.1	20.7
LS88-240	48.1	26	6.9	2.1	32	1.8	14.3	40.3	20.2
LS88-519	48.0	27	13.8	2.8	36	2.0	15.2	40.3	19.9
Md88-5241	53.7	7	1.5	1.6	35	2.2	17.6	43.3	20.0
S86-4496	51.9	18	6.1	2.4	41	2.2	17.0	39.5	20.6
S86-4499	52.8	10	6.4	2.7	40	2.4	16.4	39.0	20.8
S88-19561	45.4	30	15.1	3.0	43	2.3	15.7	40.2	19.8

* 132.4 Days After Planting

UNIFORM TEST IV, 1992

1991-1992 2-YEAR MEAN

No. of Tests Strain	Yield 38 bu/a	Rank 38 No.	Maturity 32 Date	Lodging 38 Score	Plant Height 38 In.	Seed Quality 36 Score	Seed Size 36 g/100	Composition Protein 10 %	 Oil 10 %
Delsoy 4210	47.8	11	3.5	2.2	39	2.1	17.7	41.5	21.2
Flyer (E)	50.1	5	-3.8	1.4	32	1.7	14.5	41.5	20.8
Spencer (IV)	50.6	3	9/23.0*	1.4	35	2.2	17.9	40.9	21.3
Spry (L)	50.4	4	7.0	2.3	34	2.0	17.0	40.8	20.9
C1804	48.5	10	1.3	2.0	39	1.9	16.7	41.6	20.4
HC86-3403	51.1	2	-0.7	1.4	34	1.9	16.6	42.7	21.2
HC87-3212	46.9	12	-1.9	1.2	22	2.0	18.5	40.4	22.0
K1191	54.2	1	7.0	1.7	36	1.9	17.1	40.9	21.0
LS86-1922	49.1	8	5.2	2.6	43	1.9	15.2	39.6	20.8
LS87-1311	49.2	7	2.3	1.6	39	1.7	15.1	39.2	21.3
S86-4496	48.7	9	5.6	2.2	41	2.2	17.2	39.6	20.8
S86-4499	49.8	6	6.4	2.3	40	2.4	16.7	39.2	21.0

* 130.2 Days After Planting

UNIFORM TEST IV, 1992

YIELD (bu/a)

Strain	Mean 20 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	52.9	41.7	46.1	49.7	61.7	54.8	53.0
Flyer (E)	52.2	34.7	49.4	51.0	47.9	61.3	59.3
Ripley (dtl)	50.1	29.0	50.7	55.1	42.4	53.5	48.2
Spencer (IV)	52.6	35.7	50.6	45.3	48.8	65.0	64.9
Spry (L)	51.8	36.6	45.8	51.4	57.8	60.2	54.5
C1804	50.8	41.3	44.8	46.2	58.8	57.5	62.3
C1841	52.0	35.6	52.8	49.6	45.2	61.8	56.3
C1842	53.6	31.9	52.7	50.2	55.4	62.6	56.3
C1851	52.2	36.2	41.3	46.0	40.9	62.2	60.8
HC85-6571	45.8	24.0	50.0	53.6	32.6	57.7	53.1
HC86-3403(DT1)	54.9	32.1	50.6	55.3	56.4	54.9	66.2
HC87-3212	51.5	35.4	51.5	56.2	42.6	52.9	57.9
HC87-3330	52.1	24.5	53.9	57.7	33.2	58.0	60.0
HS89-5467	55.6	42.3	53.1	49.3	46.6	60.1	63.1
K1191	56.1	37.9	46.2	51.3	57.3	44.6	60.3
K1212	51.4	30.4	46.0	48.5	65.5	45.3	49.3
K1213	54.4	35.8	47.6	49.0	51.3	62.2	61.8
Ky88-1195	55.7	33.2	45.3	52.1	56.5	60.5	57.1
Ky88-5037	56.9	46.4	45.0	52.7	58.7	58.5	60.4
LN88-7616	52.3	31.5	42.9	48.9	49.9	56.0	54.2
LS86-1922	50.2	42.0	46.0	44.8	50.6	54.1	55.9
LS87-1123	52.3	43.8	43.2	45.9	60.2	58.4	60.2
LS87-1311	50.6	31.8	44.4	45.2	54.1	50.8	57.7
LS88-213	47.7	43.1	41.0	40.2	49.2	54.9	50.9
LS88-240	48.1	46.0	42.8	41.8	56.4	48.5	50.5
LS88-519	48.0	38.5	38.9	49.3	63.2	38.1	49.8
Md88-5241	53.7	42.5	48.3	51.6	55.0	57.5	63.1
S86-4496	51.9	41.1	47.0	47.4	59.8	57.4	56.8
S86-4499	52.8	37.8	42.6	52.9	61.1	56.9	55.4
S88-19561	45.4	40.7	36.3	39.7	49.3	51.7	52.1
C.V. (%)		14.4	8.3	7.0	8.5	6.1	7.6
L.S.D. (5%)		11.7	6.4	5.6	7.3	5.6	7.1
Row Sp. (In.)		15	30	30	30	30	24
Rows/Plot		5	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST IV, 1992

YIELD (bu/a)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	71.1	58.3	43.3	62.8	52.1	47.5	54.1	48.8	51.1
Flyer (E)	59.1	60.3	49.2	60.5	57.5	42.7	54.9	31.8	54.7
Ripley (dtl)	65.7	64.2	47.9	63.7	56.0	40.1	53.9	26.5	53.3
Spencer (IV)	51.2	62.9	53.2	64.7	59.1	47.4	62.9	29.5	55.3
Spry (L)	66.1	51.1	43.2	69.3	52.3	47.2	56.3	37.1	40.5
C1804	59.8	51.6	45.0	63.3	47.0	44.9	50.0	47.5	48.0
C1841	63.7	67.2	48.1	62.5	53.4	50.1	56.0	36.2	40.1
C1842	69.3	63.6	47.8	65.1	56.2	50.8	51.1	39.6	55.4
C1851	62.5	62.1	51.2	57.0	54.0	48.8	54.7	28.8	53.9
HC85-6571	22.6	49.5	49.7	69.1	55.3	29.8	36.7	17.1	48.9
HC86-3403(DT 1)	68.5	59.5	49.4	62.2	60.5	43.6	62.0	37.9	47.9
HC87-3212	65.5	55.2	48.6	66.2	59.6	40.7	54.5	24.0	55.3
HC87-3330	62.4	59.2	50.7	67.3	59.9	45.1	52.9	29.3	53.7
HS89-5467	72.5	65.7	52.5	61.6	58.7	42.3	64.4	45.6	53.8
K1191	69.6	65.5	52.0	72.9	59.0	55.9	63.7	44.6	54.8
K1212	68.4	59.7	44.1	55.3	50.7	48.8	57.6	51.4	48.2
K1213	66.8	62.6	49.8	59.9	55.3	53.8	59.2	42.5	51.8
Ky88-1195	75.0	65.4	48.2	66.4	60.0	47.3	58.0	43.1	49.1
Ky88-5037	74.8	61.9	51.4	72.0	57.4	54.0	65.2	45.0	52.4
LN88-7616	60.3	58.8	45.4	73.2	56.1	47.0	58.3	30.0	52.4
LS86-1922	68.2	49.8	45.3	63.0	48.0	46.2	56.2	46.5	48.3
LS87-1123	65.0	54.6	45.7	57.4	51.6	43.0	48.1	47.6	48.5
LS87-1311	68.3	58.8	46.0	54.3	52.0	45.6	60.6	46.3	42.5
LS88-213	59.1	53.2	54.8	59.8	47.5	42.4	51.4	42.9	36.8
LS88-240	49.3	57.0	48.9	62.1	53.9	45.9	51.4	33.5	42.1
LS88-519	61.2	58.1	47.5	50.1	48.4	45.9	54.0	48.0	38.1
Md88-5241	49.5	57.5	50.1	63.6	59.0	52.1	60.6	39.7	52.5
S86-4496	58.6	57.1	50.8	56.0	52.6	50.9	59.9	51.7	40.1
S86-4499	69.8	57.0	48.9	55.9	51.6	52.3	52.8	51.8	46.2
S88-19561	46.9	49.5	42.0	61.5	48.6	41.6	53.5	49.6	33.2
C.V. (%)	15.3	4.3	7.2	7.4	6.0	10.3	8.3	8.6	11.0
L.S.D. (5%)	15.7	4.3	5.9	7.8	3.4	7.8	9.7	5.6	10.6
Row Sp. (In.)	24	30	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	2	3	3

UNIFORM TEST IV, 1992

YIELD (bu/a)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	38.0	54.4	59.5	64.2	45.9
Flyer (E)	47.4	55.6	69.2	61.7	35.4
Ripley (dtl)	32.2	64.8	63.7	62.6	28.9
Spencer (IV)	46.5	45.3	63.2	66.0	33.9
Spry (L)	40.0	57.0	58.2	56.4	54.7
C1804	44.1	50.9	57.2	55.8	39.8
C1841	49.4	41.5	65.9	69.2	35.0
C1842	47.9	45.2	65.2	68.3	36.8
C1851	48.6	50.5	65.2	69.0	50.9
HC85-6571	51.7	42.6	65.7	66.5	40.3
HC86-3403(DT1)	51.0	66.7	68.4	65.7	40.1
HC87-3212	47.4	48.6	69.8	62.6	35.0
HC87-3330	48.7	50.9	64.3	68.9	40.6
HS89-5467	46.1	50.3	68.1	67.8	47.6
K1191	39.8	65.9	56.7	68.7	54.5
K1212	36.9	57.5	52.2	61.3	51.1
K1213	45.0	52.2	68.0	63.5	49.4
Ky88-1195	41.1	68.8	68.8	66.7	50.4
Ky88-5037	39.8	61.5	66.5	65.5	48.2
LN88-7616	39.1	64.7	62.2	71.6	43.2
LS86-1922	35.7	45.7	46.8	60.6	50.7
LS87-1123	38.4	56.2	62.9	61.0	53.3
LS87-1311	43.7	49.1	55.7	62.2	42.5
LS88-213	31.1	56.2	41.3	51.8	45.5
LS88-240	37.7	47.1	48.5	54.4	44.3
LS88-519	34.1	53.0	38.3	52.6	53.8
Md88-5241	42.1	62.7	68.8	62.8	35.5
S86-4496	36.4	48.0	53.9	66.5	46.4
S86-4499	38.5	48.8	59.4	66.0	49.6
S88-19561	33.1	35.3	41.0	55.3	47.5
C.V. (%)	12.8	12.8	4.8	6.4	14.3
L.S.D. (5%)	8.7	11.2	5.8	6.7	10.4
Row Sp. (In.)	30	15	7	24	40
Rows/Plot	4	6	8	4	4
Reps	3	3	2	3	3

UNIFORM TEST IV, 1992

YIELD RANK

Strain	Yield Rank	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	9	8	15	14	3	21	24
Flyer (E)	14	21	10	12	23	6	12
Ripley (dtl)	25	28	6	4	27	23	30
Spencer (IV)	11	18	7	25	22	1	2
Spry (L)	19	15	18	10	9	8	21
C1804	22	9	21	22	7	14	5
C1841	17	19	3	15	25	5	17
C1842	8	24	4	13	14	2	17
C1851	14	16	27	23	28	3	7
HC85-6571	29	30	9	5	30	13	23
HC86-3403(DT1)	5	23	7	3	12	19	1
HC87-3212	20	20	5	2	26	24	13
HC87-3330	16	29	1	1	29	12	11
HS89-5467	4	6	2	16	24	9	3
K1191	2	13	14	11	10	29	9
K1212	21	27	17	20	1	28	29
K1213	6	17	12	18	17	3	6
Ky88-1195	3	22	19	8	11	7	15
Ky88-5037	1	1	20	7	8	10	8
LN88-7616	12	26	24	19	19	18	22
LS86-1922	24	7	16	27	18	22	19
LS87-1123	12	3	23	24	5	11	10
LS87-1311	23	25	22	26	16	26	14
LS88-213	28	4	28	29	21	20	26
LS88-240	26	2	25	28	12	27	27
LS88-519	27	12	29	16	2	30	28
Md88-5241	7	5	11	9	15	14	3
S86-4496	18	10	13	21	6	16	16
S86-4499	10	14	26	6	4	17	20
S88-19561	30	11	30	30	20	25	25

UNIFORM TEST IV, 1992

YIELD RANK

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	4	17	28	15	21	11	19	5	14
Flyer (E)	23	11	13	21	9	24	16	23	5
Ripley (dtl)	14	5	19	11	13	29	21	28	9
Spencer (IV)	26	7	2	10	5	12	4	25	2
Spry (L)	13	27	29	4	20	14	13	20	25
C1804	22	26	26	13	30	21	28	8	20
C1841	17	1	18	16	18	8	15	21	26
C1842	7	6	20	9	11	7	27	18	1
C1851	18	9	6	25	16	9	17	27	6
HC85-6571	30	29	11	5	14	30	30	30	16
HC86-3403(DT1)	8	13	12	17	1	22	5	19	21
HC87-3212	15	23	16	8	4	28	18	29	2
HC87-3330	19	14	8	6	3	20	23	26	8
HS89-5467	3	2	3	19	8	26	2	11	7
K1191	6	3	4	2	6	1	3	13	4
K1212	9	12	27	28	25	9	12	3	19
K1213	12	8	10	22	14	3	9	16	13
Ky88-1195	1	4	17	7	2	13	11	14	15
Ky88-5037	2	10	5	3	10	2	1	12	11
LN88-7616	21	15	24	1	12	15	10	24	11
LS86-1922	11	28	25	14	28	16	14	9	18
LS87-1123	16	24	23	24	23	23	29	7	17
LS87-1311	10	15	22	29	22	19	6	10	23
LS88-213	23	25	1	23	29	25	25	15	29
LS88-240	28	21	14	18	17	17	25	22	24
LS88-519	20	18	21	30	27	17	20	6	28
Md88-5241	27	19	9	12	6	5	6	17	10
S86-4496	25	20	7	26	19	6	8	2	26
S86-4499	5	21	14	27	23	4	24	1	22
S88-19561	29	30	30	20	26	27	22	4	30

UNIFORM TEST IV, 1992

YIELD RANK

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	22	13	18	15	15
Flyer (E)	7	12	2	21	26
Ripley (dtl)	29	4	14	18	30
Spencer (IV)	9	26	15	11	29
Spry (L)	16	9	20	25	1
C1804	12	16	21	26	23
C1841	3	29	9	2	28
C1842	6	27	11	6	24
C1851	5	18	11	3	6
HC85-6571	1	28	10	9	21
HC86-3403(DT1)	2	2	5	13	22
HC87-3212	7	22	1	18	27
HC87-3330	4	16	13	4	20
HS89-5467	10	19	6	7	12
K1191	17	3	22	5	2
K1212	24	8	25	22	5
K1213	11	15	7	16	10
Ky88-1195	15	1	3	8	8
Ky88-5037	18	7	8	14	11
LN88-7616	19	5	17	1	18
LS86-1922	26	25	27	24	7
LS87-1123	21	10	16	23	4
LS87-1311	13	20	23	20	19
LS88-213	30	10	28	30	16
LS88-240	23	24	26	28	17
LS88-519	27	14	30	29	3
Md88-5241	14	6	3	17	25
S86-4496	25	23	24	9	14
S86-4499	20	21	19	11	9
S88-19561	28	30	29	27	13

UNIFORM TEST IV, 1992

MATURITY (date)

Strain	Mean 17 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	3.5		3	2	3	2	4
Flyer (E)	-2.8		-4	0	-1	-6	-3
Ripley (dtl)	0.4		1	0	1	0	1
Spencer (IV)	09/24		09/23	09/18	09/08	09/29	10/01
Spry (L)	8.3		13	4	5	9	13
C1804	1.2		2	0	1	2	4
C1841	-1.4		-1	1	-3	-5	-2
C1842	-4.6		-4	-1	-5	-7	-7
C1851	-1.3		-2	-1	-4	0	-1
HC85-6571	-4.9		-2	-1	-7	-9	-7
HC86-3403(DT1)	-0.2		0	1	0	-4	0
HC87-3212	0.1		2	2	0	-6	0
HC87-3330	-2.2		-2	0	-4	-7	-2
HS89-5467	-2.2		-3	0	-2	-2	-2
K1191	7.1		5	3	5	6	8
K1212	5.8		6	2	6	4	4
K1213	1.1		1	0	1	1	1
Ky88-1195	3.6		5	2	3	2	0
Ky88-5037	7.0		8	4	5	9	8
LN88-7616	1.2		2	1	-2	2	0
LS86-1922	6.9		7	4	4	10	8
LS87-1123	6.4		5	3	8	10	9
LS87-1311	2.8		2	1	3	4	3
LS88-213	10.6		14	3	8	13	16
LS88-240	6.9		8	2	7	5	9
LS88-519	13.8		19	14	14	10	14
Md88-5241	1.5		2	2	1	0	2
S86-4496	6.1		10	3	6	8	5
S86-4499	6.4		9	4	8	8	5
S88-19561	15.1		19	18	16	15	15
Date Planted	05/15		05/19	05/25	04/29	05/07	05/08
Days to Mature	132.4		127	116	132	145	146

UNIFORM TEST IV, 1992

MATURITY (date)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	7	2			1	4	4	1	3
Flyer (E)	-5	-1			-5	-3	0	-4	-5
Ripley (dtl)	-1	-1			-3	0	-2	-4	-1
Spencer (IV)	10/02	09/26			09/27	10/01	09/12	09/11	09/30
Spry (L)	10	7			8	7	6	1	F
C1804	8	-1			-2	-3	3	1	-2
C1841	0	0			-3	-3	-1	-4	0
C1842	-5	-2			-9	-3	-3	-4	-4
C1851	0	0			-4	-2	-2	-4	-1
HC85-6571	-3	-7			-8	-7	-3	-4	-7
HC86-3403(DT1)	2	-1			0	-5	2	0	-5
HC87-3212	0	0			-3	-3	0	-2	-2
HC87-3330	-2	-2			-5	-4	1	-4	-3
HS89-5467	-3	-2			-3	-5	-1	-2	-7
K1191	7	12			11	7	7	8	5
K1212	7	6			11	6	6	7	3
K1213	0	0			0	0	2	-1	-2
Ky88-1195	8	7			4	3	3	3	5
Ky88-5037	8	11			8	4	7	7	6
LN88-7616	6	0			2	-1	2	-2	0
LS86-1922	9	8			10	4	7	7	4
LS87-1123	10	7			2	4	6	6	4
LS87-1311	7	3			4	3	2	2	0
LS88-213	8	8			15	5	8	6	F
LS88-240	6	3			11	7	5	6	4
LS88-519	11	11			18	6	16	15	F
Md88-5241	3	2			2	-1	3	1	-3
S86-4496	7	5			7	4	5	8	6
S86-4499	9	7			9	6	5	7	4
S88-19561	10	18			15	13	16	21	F
Date Planted	05/27	05/21			05/15	05/28	04/30	05/11	05/13
Days to Mature	128	128			135	126	135	123	140

UNIFORM TEST IV, 1992

MATURITY (date)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	7	3	4	5	4
Flyer (E)	0	-4	-5	0	-2
Ripley (dtl)	4	1	2	5	4
Spencer (IV)	10/02	09/27	10/01	10/06	09/15
Spry (L)	14	8	9	11	8
C1804	4	-3	3	1	2
C1841	3	-2	-3	3	-3
C1842	-2	-6	-11	-2	-3
C1851	1	-2	-2	0	2
HC85-6571	4	-8	-10	-1	-3
HC86-3403(DT1)	6	0	1	0	0
HC87-3212	7	3	0	3	0
HC87-3330	4	-3	-2	1	-3
HS89-5467	1	-2	-1	0	-3
K1191	6	8	9	10	4
K1212	5	6	3	11	5
K1213	4	-1	0	7	5
Ky88-1195	4	0	0	8	4
Ky88-5037	7	7	6	10	4
LN88-7616	3	-1	2	7	0
LS86-1922	8	6	6	10	6
LS87-1123	9	4	6	7	8
LS87-1311	5	1	0	3	4
LS88-213	18	12	12	15	8
LS88-240	14	4	7	12	7
LS88-519	18	16	12	15	12
Md88-5241	6	0	3	4	-1
S86-4496	7	4	5	5	9
S86-4499	4	3	5	7	8
S88-19561	16	12	11	13	13
Date Planted	06/10	05/07	05/05	05/20	05/14
Days to Mature	114	143	149	139	124

UNIFORM TEST IV, 1992

LODGING (score)

Strain	Mean 20 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	2.5	3.3	2.2	1.8	2.0	2.3	3.3
Flyer (E)	1.3	2.3	1.0	1.0	1.2	2.0	1.7
Ripley (dtl)	1.4	1.3	1.4	1.0	1.0	1.7	2.3
Spencer (IV)	1.4	2.0	1.0	1.0	1.2	1.3	1.7
Spry (L)	2.9	4.0	3.2	2.8	1.7	4.0	2.7
C1804	2.2	3.0	2.8	1.8	2.2	2.0	2.7
C1841	1.7	2.3	1.0	1.2	1.3	2.3	2.3
C1842	1.3	2.0	1.0	1.0	1.0	1.7	1.2
C1851	1.4	2.0	1.0	1.0	1.2	1.7	2.2
HC85-6571	1.1	1.3	1.0	1.0	1.0	1.0	1.0
HC86-3403(DT1)	1.5	2.3	1.5	1.3	1.3	1.7	1.0
HC87-3212	1.3	2.0	1.0	1.2	1.0	1.0	1.0
HC87-3330	1.3	1.7	1.0	1.0	1.0	1.0	1.0
HS89-5467	1.5	2.0	1.2	1.2	1.3	1.7	1.7
K1191	1.8	1.7	2.0	1.3	1.5	2.0	2.2
K1212	1.8	1.7	1.4	1.2	1.7	2.0	3.5
K1213	1.7	1.7	1.0	1.2	1.5	2.0	1.7
Ky88-1195	1.4	2.0	1.0	1.3	1.3	1.7	1.3
Ky88-5037	2.3	3.3	2.8	1.7	2.0	2.7	2.7
LN88-7616	2.0	2.0	1.0	1.3	1.0	3.0	3.8
LS86-1922	3.0	3.0	4.8	3.0	2.2	3.7	4.0
LS87-1123	2.7	4.3	2.5	2.5	2.0	4.0	2.8
LS87-1311	1.8	2.0	1.6	1.5	1.3	2.0	1.8
LS88-213	2.5	3.7	3.7	2.0	1.7	3.3	2.3
LS88-240	2.1	3.3	2.3	1.7	1.2	2.0	2.2
LS88-519	2.8	4.3	4.5	1.8	1.5	4.0	3.0
Md88-5241	1.6	2.0	1.6	1.5	1.3	1.7	1.7
S86-4496	2.4	3.3	3.8	2.0	1.8	2.7	3.5
S86-4499	2.7	3.3	3.8	2.2	2.0	3.3	3.3
S88-19561	3.0	3.3	5.0	2.8	2.0	4.0	3.0

UNIFORM TEST IV, 1992

LODGING (score)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	1.5	2.0	2.1	2.6	4.0	3.2	3.0	1.5	1.7
Flyer (E)	1.0	1.2	1.0	1.0	2.0	1.3	2.0	1.0	1.0
Ripley (dtl)	1.0	1.2	1.0	1.0	2.0	1.0	1.3	1.0	1.0
Spencer (IV)	1.0	1.2	1.0	1.1	2.0	1.3	2.3	1.0	1.0
Spry (L)	1.7	2.7	2.7	2.7	4.0	3.5	3.3	1.0	2.7
C1804	1.5	2.1	1.3	2.2	3.0	1.5	3.0	2.0	1.0
C1841	1.7	1.5	1.0	1.7	2.0	2.0	2.0	1.0	1.0
C1842	1.0	1.0	1.0	1.2	1.0	1.5	2.0	1.0	1.0
C1851	1.2	1.5	1.0	1.5	2.0	1.5	2.0	1.0	1.0
HC85-6571	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC86-3403(DT1)	1.2	1.0	1.1	1.4	2.0	1.8	1.8	1.0	1.0
HC87-3212	1.0	1.1	1.1	1.0	1.0	1.5	1.0	1.0	1.0
HC87-3330	1.0	1.0	1.0	1.1	2.0	1.5	1.0	1.0	1.0
HS89-5467	1.0	1.0	1.0	1.8	2.0	1.5	2.3	1.0	1.0
K1191	1.0	1.8	1.0	1.6	2.0	2.0	2.5	1.0	1.3
K1212	1.3	1.6	1.0	1.0	2.0	1.7	3.5	1.0	1.3
K1213	1.3	1.6	1.2	1.0	3.0	2.3	2.8	1.0	1.0
Ky88-1195	1.3	1.2	1.0	1.1	2.0	1.2	2.0	1.0	1.0
Ky88-5037	2.3	2.0	1.0	2.2	3.0	2.2	3.3	1.5	2.3
LN88-7616	1.7	2.3	1.0	2.0	3.0	2.0	2.8	1.0	1.0
LS86-1922	1.8	3.6	2.0	2.5	4.0	2.8	3.3	2.0	3.0
LS87-1123	2.3	3.5	2.0	2.3	4.0	3.2	3.0	2.0	1.7
LS87-1311	1.5	1.9	1.2	1.4	3.0	2.7	2.0	2.0	1.0
LS88-213	1.8	3.0	1.9	2.1	3.0	2.8	2.8	1.0	2.3
LS88-240	1.0	2.5	1.6	2.0	3.0	2.3	2.5	1.0	2.0
LS88-519	1.7	2.3	2.0	2.4	3.0	2.7	3.3	1.5	2.3
Md88-5241	1.8	1.0	1.0	1.2	2.0	2.0	2.3	1.0	1.0
S86-4496	1.8	2.1	1.7	1.8	3.0	2.3	3.3	2.0	1.3
S86-4499	3.3	2.1	2.3	1.9	4.0	2.7	3.5	2.0	2.0
S88-19561	1.8	3.0	2.0	2.4	3.0	2.8	3.8	2.5	3.0

UNIFORM TEST IV, 1992

LODGING (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	3.3	1.9	3.5	3.0	2.0
Flyer (E)	1.0	1.1	1.0	1.0	2.0
Ripley (dtl)	3.0	1.1	1.8	2.3	1.0
Spencer (IV)	1.7	1.1	1.3	1.3	1.8
Spry (L)	4.0	1.8	3.5	3.3	2.0
C1804	3.3	1.2	3.0	3.0	2.2
C1841	2.0	1.1	2.0	1.7	2.5
C1842	1.0	1.1	1.0	1.0	2.5
C1851	1.3	1.0	1.8	1.0	2.0
HC85-6571	3.0	1.0	1.0	1.0	1.0
HC86-3403(DT1)	1.7	1.1	1.3	1.0	2.5
HC87-3212	3.0	1.0	1.5	1.7	1.2
HC87-3330	3.7	1.0	1.5	2.0	1.0
HS89-5467	2.3	1.1	1.5	1.3	2.0
K1191	2.7	1.4	1.8	2.3	2.5
K1212	2.0	1.1	3.0	3.0	1.7
K1213	2.3	1.3	1.8	2.3	2.5
Ky88-1195	1.7	1.3	1.5	2.0	2.0
Ky88-5037	2.7	1.5	2.3	3.0	2.0
LN88-7616	2.7	1.3	2.0	2.7	1.7
LS86-1922	3.3	1.6	4.0	3.3	2.5
LS87-1123	3.0	1.5	2.8	2.3	2.0
LS87-1311	3.0	1.0	1.3	1.3	1.7
LS88-213	3.0	1.3	3.5	4.0	1.5
LS88-240	3.3	1.1	2.5	3.7	1.5
LS88-519	3.3	3.5	3.5	4.0	2.0
Md88-5241	2.0	1.2	1.5	1.7	2.0
S86-4496	2.7	1.2	2.8	3.0	2.0
S86-4499	3.0	1.2	3.5	2.7	2.0
S88-19561	4.0	1.3	3.8	3.7	2.5

UNIFORM TEST IV, 1992

PLANT HEIGHT (inches)

Strain	Mean 20 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	39	30	48	44	40	46	45
Flyer (E)	32	24	36	36	34	38	41
Ripley (dtl)	26	18	30	25	20	31	34
Spencer (IV)	35	24	40	38	38	46	45
Spry (L)	35	30	45	38	36	30	46
C1804	39	28	47	45	40	46	46
C1841	34	25	40	38	36	43	41
C1842	32	22	36	32	33	40	39
C1851	34	25	37	37	36	43	45
HC85-6571	19	15	22	18	16	24	26
HC86-3403(DT1)	35	24	42	38	38	43	45
HC87-3212	23	21	27	25	20	21	32
HC87-3330	24	16	30	24	19	27	34
HS89-5467	33	25	41	38	35	42	44
K1191	35	26	42	37	37	43	44
K1212	34	22	37	37	37	44	42
K1213	36	24	40	37	38	42	44
Ky88-1195	37	25	39	41	40	47	45
Ky88-5037	40	28	47	43	45	50	48
LN88-7616	35	23	43	35	33	44	46
LS86-1922	42	33	58	47	43	48	49
LS87-1123	41	34	52	45	43	48	47
LS87-1311	38	26	48	45	41	46	49
LS88-213	36	31	43	34	38	38	42
LS88-240	32	27	36	32	29	38	43
LS88-519	36	28	46	45	34	40	44
Md88-5241	35	26	40	38	34	40	41
S86-4496	41	31	51	47	46	50	51
S86-4499	40	29	51	47	42	48	47
S88-19561	43	35	52	53	52	49	48

UNIFORM TEST IV, 1992

PLANT HEIGHT (inches)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	39	39	38	41	42	32	41	35	37
Flyer (E)	30	36	32	31	35	25	32	24	34
Ripley (dtl)	30	28	27	27	26	18	24	16	27
Spencer (IV)	38	37	35	37	40	24	36	26	35
Spry (L)	27	35	39	40	39	30	29	24	34
C1804	36	42	35	42	41	27	42	35	39
C1841	37	35	30	36	37	27	31	26	33
C1842	38	36	29	34	35	28	34	25	33
C1851	37	36	33	36	34	26	33	22	35
HC85-6571	19	20	25	20	20	12	16	9	20
HC86-3403(DT1)	36	38	30	35	37	27	37	26	34
HC87-3212	24	24	26	25	27	16	17	17	25
HC87-3330	25	25	28	26	27	18	21	16	25
HS89-5467	33	33	33	37	34	25	33	29	36
K1191	37	37	31	40	38	29	36	28	35
K1212	27	35	30	33	39	29	38	33	33
K1213	38	40	34	35	38	33	38	32	35
Ky88-1195	41	37	31	39	42	24	40	29	37
Ky88-5037	39	43	40	45	43	30	43	33	40
LN88-7616	35	36	34	38	39	26	38	26	35
LS86-1922	37	34	42	44	40	34	44	44	40
LS87-1123	41	40	41	42	45	34	41	38	40
LS87-1311	39	37	36	39	43	31	41	38	36
LS88-213	30	36	36	37	40	27	36	25	36
LS88-240	34	31	34	35	33	25	33	25	33
LS88-519	34	32	36	40	44	27	36	30	31
Md88-5241	38	36	30	35	37	28	36	32	34
S86-4496	38	43	39	41	44	31	40	40	38
S86-4499	39	42	37	45	42	35	38	38	39
S88-19561	37	42	40	42	47	34	34	53	40

UNIFORM TEST IV, 1992

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	36	35	44	43	30
Flyer (E)	29	31	34	31	25
Ripley (dtl)	31	25	29	31	19
Spencer (IV)	34	28	34	34	23
Spry (L)	40	33	42	42	22
C1804	37	32	42	46	31
C1841	32	31	36	34	25
C1842	30	28	36	32	25
C1851	30	29	40	35	24
HC85-6571	19	15	24	25	13
HC86-3403(DT1)	33	35	36	36	24
HC87-3212	28	17	30	30	15
HC87-3330	27	18	29	31	15
HS89-5467	32	25	36	33	24
K1191	34	32	40	37	25
K1212	32	27	36	38	25
K1213	34	33	38	39	25
Ky88-1195	36	37	43	38	26
Ky88-5037	36	34	43	43	27
LN88-7616	34	33	38	41	22
LS86-1922	39	34	44	51	29
LS87-1123	39	34	44	40	30
LS87-1311	34	28	39	40	28
LS88-213	40	30	41	46	24
LS88-240	33	26	39	40	20
LS88-519	37	34	39	42	25
Md88-5241	32	34	44	34	25
S86-4496	36	31	42	45	30
S86-4499	34	34	44	44	31
S88-19561	43	32	44	47	36

UNIFORM TEST IV, 1992

SEED QUALITY (score)

Strain	Mean 20 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	2.1	6.0	2.0	3.0	1.5	1.2	1.0
Flyer (E)	1.6	3.0	2.0	2.0	1.2	1.2	1.0
Ripley (dtl)	1.4	2.3	1.0	1.0	1.2	1.2	1.0
Spencer (IV)	2.0	5.7	1.0	2.0	1.6	1.3	1.5
Spry (L)	2.1	4.3	2.0	1.0	1.2	1.5	1.0
C1804	1.8	2.7	1.0	2.0	1.6	1.2	1.0
C1841	2.0	5.0	2.0	2.0	1.3	1.2	1.0
C1842	1.9	4.0	2.0	2.0	1.3	1.2	1.0
C1851	1.9	4.7	1.0	2.0	1.3	1.2	1.0
HC85-6571	2.1	4.7	2.0	1.0	1.3	1.2	1.0
HC86-3403(DT1)	1.9	5.7	2.0	2.0	1.2	1.2	1.0
HC87-3212	2.0	3.3	2.0	2.0	1.4	1.2	1.0
HC87-3330	1.8	2.7	2.0	1.0	1.7	1.2	1.0
HS89-5467	1.9	3.7	2.0	2.0	1.4	1.3	1.0
K1191	1.9	3.7	1.0	3.0	1.2	1.2	1.0
K1212	1.8	2.7	2.0	2.0	1.2	1.2	1.5
K1213	1.7	3.3	1.0	1.0	1.2	1.2	1.5
Ky88-1195	1.7	4.0	2.0	1.0	1.2	1.2	1.0
Ky88-5037	1.9	4.3	2.0	2.0	1.3	1.3	1.0
LN88-7616	1.8	3.7	2.0	2.0	1.2	1.2	1.0
LS86-1922	1.9	3.7	1.0	2.0	1.4	1.5	1.5
LS87-1123	1.7	2.7	2.0	1.0	1.3	1.5	1.0
LS87-1311	1.8	3.3	1.0	2.0	1.2	1.2	1.0
LS88-213	1.9	3.7	1.0	1.0	1.3	1.3	1.0
LS88-240	1.8	4.0	1.0	2.0	1.4	1.2	1.0
LS88-519	2.0	2.0	1.0	1.0	1.6	2.1	1.0
Md88-5241	2.2	4.3	2.0	3.0	1.2	1.2	1.5
S86-4496	2.2	6.0	2.0	3.0	1.6	1.2	1.5
S86-4499	2.4	5.3	3.0	3.0	1.4	1.5	1.5
S88-19561	2.3	4.3	2.0	2.0	1.8	1.3	1.0

UNIFORM TEST IV, 1992

SEED QUALITY (score)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	1.0	2.0	3.0	2.0	2.0	3.3	3.0	1.5	2.0
Flyer (E)	1.0	2.0	2.0	2.0	1.0	2.0	3.0	1.5	1.0
Ripley (dtl)	1.0	2.0	2.0	2.0	1.0	1.5	2.0	1.0	1.0
Spencer (IV)	1.0	2.0	3.0	2.0	1.0	2.8	3.0	2.5	1.3
Spry (L)	1.0	3.0	2.0	2.0	1.0	2.8	3.0	1.5	1.7
C1804	1.0	2.0	3.0	3.0	1.0	2.7	3.0	1.5	2.0
C1841	1.0	2.0	2.0	3.0	1.0	2.2	3.0	2.0	1.3
C1842	1.0	2.0	3.0	3.0	2.0	2.7	3.0	2.0	1.0
C1851	1.0	2.0	2.0	3.0	1.0	3.0	3.0	2.0	1.7
HC85-6571	1.5	3.0	3.0	3.0	1.0	3.5	3.0	2.0	1.0
HC86-3403(DT1)	1.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	1.0
HC87-3212	1.0	2.0	3.0	2.0	1.0	2.2	3.0	2.0	2.0
HC87-3330	1.0	3.0	2.0	2.0	1.0	2.0	3.0	2.5	1.0
HS89-5467	1.0	2.0	3.0	3.0	2.0	2.2	2.0	1.5	1.0
K1191	1.0	2.0	3.0	3.0	2.0	1.8	3.0	1.5	1.0
K1212	1.0	2.0	2.0	2.0	1.0	1.8	2.0	1.5	1.3
K1213	1.0	2.0	4.0	2.0	2.0	1.5	2.0	1.5	1.3
Ky88-1195	1.0	2.0	2.0	3.0	1.0	1.7	3.0	1.5	1.3
Ky88-5037	1.0	2.0	2.0	2.0	1.0	2.5	3.0	1.5	1.3
LN88-7616	1.0	3.0	2.0	2.0	1.0	2.5	3.0	1.5	1.3
LS86-1922	1.0	2.0	2.0	2.0	2.0	2.2	3.0	2.0	1.3
LS87-1123	1.0	2.0	2.0	2.0	2.0	1.8	2.0	1.5	1.3
LS87-1311	1.0	2.0	3.0	2.0	2.0	2.2	3.0	1.0	1.7
LS88-213	1.0	2.0	2.0	2.0	1.0	1.5	2.0	1.0	2.0
LS88-240	1.0	2.0	2.0	3.0	1.0	1.5	2.0	1.0	1.7
LS88-519	1.0	2.0	2.0	2.0	3.0	2.5	3.0	1.5	2.3
Md88-5241	1.5	3.0	3.0	3.0	2.0	2.7	3.0	2.0	1.7
S86-4496	1.5	2.0	3.0	2.0	2.0	2.8	3.0	2.5	1.7
S86-4499	1.0	3.0	3.0	3.0	2.0	2.8	3.0	2.5	2.0
S88-19561	1.0	2.0	3.0	3.0	3.0	1.5	3.0	2.5	2.3

UNIFORM TEST IV, 1992

SEED QUALITY (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	1.0	1.2	1.3	2.0	2.0
Flyer (E)	1.0	1.1	1.3	2.0	1.5
Ripley (dtl)	1.3	1.2	1.5	1.5	2.2
Spencer (IV)	1.0	1.4	2.0	2.0	2.0
Spry (L)	3.0	1.2	4.0	2.0	2.5
C1804	1.0	1.1	2.5	2.0	1.5
C1841	1.0	1.5	2.0	3.0	2.2
C1842	1.0	1.2	2.0	1.5	2.0
C1851	1.0	1.4	2.5	2.0	2.0
HC85-6571	1.7	1.2	2.0	2.0	3.2
HC86-3403(DT1)	1.3	1.0	2.0	1.5	2.0
HC87-3212	2.0	1.0	2.5	2.5	2.0
HC87-3330	2.0	1.3	1.5	2.0	2.5
HS89-5467	1.3	1.1	2.0	2.0	2.5
K1191	1.7	1.4	3.0	1.5	1.5
K1212	2.0	1.1	2.0	2.5	2.2
K1213	1.0	1.2	1.8	2.0	1.5
Ky88-1195	1.0	1.1	1.5	2.0	1.5
Ky88-5037	1.7	1.4	2.5	2.0	1.5
LN88-7616	1.7	1.1	1.5	2.0	2.0
LS86-1922	1.3	1.2	2.0	2.0	2.0
LS87-1123	1.7	1.1	1.5	2.5	1.5
LS87-1311	1.7	1.0	1.8	1.5	2.0
LS88-213	4.0	1.0	4.0	2.0	2.5
LS88-240	2.3	1.1	2.5	2.0	1.7
LS88-519	3.0	1.3	4.0	2.0	2.2
Md88-5241	2.0	1.3	2.0	2.0	2.0
S86-4496	1.0	1.3	2.3	2.0	2.0
S86-4499	1.3	1.3	2.5	2.0	2.0
S88-19561	3.3	1.2	3.0	2.0	2.0

UNIFORM TEST IV, 1992

SEED SIZE (g/100)

Strain	Mean 19 Tests	George-town DE	Belle-ville IL	Cora IL	Ridg-way IL	Urbana IL	Lafay-ette IN
Delsoy 4210	17.8		17.0	17.0	15.6	18.5	16.8
Flyer (E)	14.7		13.7	13.2	12.0	15.1	14.8
Ripley (dtl)	13.7		13.8	12.8	12.2	12.6	12.9
Spencer (IV)	17.8		17.9	15.5	13.9	19.9	18.9
Spry (L)	16.5		16.6	15.4	14.8	16.1	15.8
C1804	16.4		15.2	14.0	14.1	17.3	17.4
C1841	16.1		15.7	15.3	13.1	15.7	16.4
C1842	17.2		16.2	15.4	14.1	19.8	16.4
C1851	17.3		16.5	15.5	14.1	19.2	17.0
HC85-6571	16.6		15.5	15.0	15.2	15.9	16.3
HC86-3403(DT1)	16.8		16.0	16.0	15.1	15.5	17.0
HC87-3212	18.7		17.8	17.4	19.0	17.3	19.4
HC87-3330	16.9		17.0	15.5	15.6	16.2	17.4
HS89-5467	15.4		14.5	13.0	12.2	17.1	16.2
K1191	16.9		16.2	15.0	13.6	16.7	15.6
K1212	13.8		13.2	12.0	12.5	13.3	12.3
K1213	15.2		14.0	13.0	13.0	16.5	15.7
Ky88-1195	16.4		14.8	14.5	14.1	17.5	14.2
Ky88-5037	15.2		13.2	13.4	13.8	16.9	16.9
LN88-7616	16.7		16.1	15.0	14.0	18.4	15.1
LS86-1922	15.1		13.7	13.3	12.3	16.6	15.5
LS87-1123	15.1		13.9	13.9	13.6	16.2	15.2
LS87-1311	15.0		14.3	13.3	13.2	15.9	15.1
LS88-213	14.1		13.9	11.9	12.4	14.6	14.0
LS88-240	14.3		12.4	11.9	14.1	13.3	13.2
LS88-519	15.2		15.0	14.9	13.3	13.4	13.7
Md88-5241	17.6		17.4	17.4	14.8	17.2	13.8
S86-4496	17.0		16.2	15.3	14.6	17.1	17.8
S86-4499	16.4		16.3	14.7	15.5	16.8	16.3
S88-19561	15.7		15.3	14.6	13.6	15.8	16.2

UNIFORM TEST IV, 1992

SEED SIZE (g/100)

Strain	Vince-nnes IN	Manhat-tan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO	Falls City NE
Delsoy 4210	21.0	17.9	17.4	18.6	18.4	17.4	13.0	14.5	17.6
Flyer (E)	15.7	15.2	15.5	15.0	16.4	15.9	13.0	10.9	16.0
Ripley (dtl)	15.0	13.9	13.8	15.0	15.4	14.3	12.0	11.3	14.0
Spencer (IV)	19.3	17.0	19.0	18.9	19.6	19.1	14.0	13.3	18.5
Spry (L)	18.4	16.0	18.6	17.3	17.8	16.7	14.0	13.8	17.4
C1804	21.2	15.4	18.7	16.3	16.0	16.6	14.0	12.9	16.1
C1841	17.5	15.8	16.4	16.2	18.4	16.7	12.0	14.0	17.0
C1842	20.1	18.3	18.0	18.5	18.8	18.6	13.0	13.6	18.1
C1851	19.6	17.3	18.4	17.3	16.7	18.4	13.0	13.5	17.4
HC85-6571	19.8	16.7	16.2	17.6	17.4	17.8	13.0	14.6	15.7
HC86-3403(DT1)	19.3	16.3	16.9	17.2	18.3	18.4	12.0	14.2	15.9
HC87-3212	22.0	18.4	20.6	19.5	19.5	19.5	14.0	15.7	18.9
HC87-3330	19.5	15.9	16.1	16.1	16.7	18.1	14.0	15.0	17.1
HS89-5467	16.7	15.3	15.4	16.2	15.6	16.3	12.0	13.0	15.5
K1191	19.9	16.6	19.2	17.5	17.6	18.3	13.0	14.5	17.6
K1212	15.2	14.5	14.4	14.1	14.6	14.6	11.0	13.3	14.1
K1213	17.6	15.0	16.2	15.1	15.6	16.5	13.0	12.5	15.6
Ky88-1195	19.2	16.3	17.4	16.7	17.0	17.0	13.0	14.2	17.0
Ky88-5037	16.9	14.9	15.5	16.0	15.4	15.6	12.0	13.3	15.6
LN88-7616	19.6	17.5	17.5	17.7	17.3	16.4	12.0	13.5	17.2
LS86-1922	19.3	14.3	16.5	14.7	15.6	15.0	13.0	12.6	15.1
LS87-1123	19.0	15.8	16.9	14.9	15.4	13.7	13.0	12.7	15.0
LS87-1311	17.3	12.7	16.0	16.0	16.4	15.4	12.0	12.4	14.4
LS88-213	15.9	13.6	15.5	15.4	15.8	13.8	12.0	13.0	13.3
LS88-240	17.3	13.5	15.4	14.7	15.4	14.1	12.0	14.6	14.3
LS88-519	18.2	15.0	16.3	15.2	17.0	15.6	13.0	14.1	14.7
Md88-5241	19.7	18.7	18.9	18.8	19.3	17.9	13.0	15.1	18.8
S86-4496	20.9	16.3	19.0	17.5	17.7	17.1	13.0	16.6	15.9
S86-4499	20.7	15.2	18.0	15.4	18.2	16.7	12.0	15.8	15.9
S88-19561	17.9	16.7	15.5	16.5	16.5	15.6	14.0	15.5	14.5

UNIFORM TEST IV, 1992

SEED SIZE (g/100)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX
Delsoy 4210	18.7	18.2	19.0	21.2	19.7
Flyer (E)	15.3	13.2	15.7	17.1	14.9
Ripley (dtl)	13.0	14.0	13.8	15.6	14.3
Spencer (IV)	18.0	17.1	18.4	21.4	19.3
Spry (L)	14.3	16.4	16.2	19.3	19.3
C1804	17.3	14.2	16.4	20.2	17.5
C1841	18.3	14.9	17.0	19.5	16.8
C1842	18.3	15.0	17.8	19.9	17.7
C1851	18.1	16.7	18.2	21.2	20.8
HC85-6571	17.0	14.9	16.7	21.1	18.5
HC86-3403(DT1)	18.3	16.9	17.1	20.5	17.5
HC87-3212	18.0	17.1	19.1	23.3	19.5
HC87-3330	17.7	15.4	16.3	21.6	19.0
HS89-5467	16.0	14.8	15.3	19.5	18.3
K1191	17.3	16.5	16.9	21.2	18.7
K1212	13.3	12.7	14.2	16.4	16.3
K1213	15.7	14.0	15.7	18.6	16.3
Ky88-1195	17.0	16.0	16.5	20.3	18.8
Ky88-5037	14.7	14.3	15.3	18.4	17.5
LN88-7616	17.3	16.1	17.1	21.2	19.2
LS86-1922	15.7	14.7	14.8	18.3	16.5
LS87-1123	14.7	14.0	15.3	17.1	16.8
LS87-1311	17.0	13.7	15.2	17.8	16.7
LS88-213	12.3	14.0	13.8	16.2	16.8
LS88-240	14.0	14.4	14.1	16.3	17.1
LS88-519	16.0	15.8	14.0	17.0	17.0
Md88-5241	18.0	17.0	18.4	21.4	18.0
S86-4496	16.0	16.1	16.4	20.4	19.5
S86-4499	15.7	16.0	16.3	19.7	17.1
S88-19561	15.3	14.7	15.2	18.5	17.1

UNIFORM TEST IV, 1992

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH	Lubbuck TX
Delsoy 4210	41.7	41.4	42.0	41.5	42.0	41.5
Flyer (E)	41.7	42.0	40.8	42.3	41.8	41.0
Ripley (dt1)	39.3	38.5	39.2	39.8	39.7	39.0
Spencer (IV)	41.4	40.6	41.5	42.5	41.0	41.3
Spry (L)	41.3	40.7	39.8	41.8	43.0	39.9
C1804	41.9	41.5	42.3	42.0	41.6	42.2
C1841	41.5	41.8	41.4	42.0	40.7	40.7
C1842	40.7	40.3	40.9	41.9	39.7	40.0
C1851	41.4	40.9	41.6	41.2	41.7	41.7
HC85-6571	40.8	41.0	40.4	41.0	40.8	40.5
HC86-3403(DT1)	42.7	42.5	42.6	44.0	41.8	41.0
HC87-3212	40.8	40.6	40.5	42.1	39.8	40.8
HC87-3330	39.4	39.9	39.0	39.1	39.4	39.6
HS89-5467	38.4	38.5	38.9	38.9	37.1	37.1
K1191	41.7	41.2	41.2	43.2	41.2	39.3
K1212	41.7	41.9	40.6	43.1	41.2	38.2
K1213	41.5	40.5	40.5	43.2	41.6	41.1
Ky88-1195	42.6	42.2	42.4	43.2	42.4	42.8
Ky88-5037	40.6	39.8	40.8	41.2	40.6	39.9
LN88-7616	40.3	39.1	40.0	41.4	40.7	39.2
LS86-1922	39.8	39.0	40.0	41.2	39.0	40.7
LS87-1123	40.4	39.6	40.4	42.2	39.2	41.5
LS87-1311	39.8	39.7	39.2	41.2	39.1	38.9
LS88-213	39.1	38.8	39.6	39.6	38.3	39.2
LS88-240	40.3	40.8	39.8	40.8	39.6	39.9
LS88-519	40.3	40.6	39.6	40.4	40.4	40.6
Md88-5241	43.3	42.9	42.3	45.0	42.8	41.5
S86-4496	39.5	38.1	39.6	40.3	40.1	40.0
S86-4499	39.0	38.2	40.2	39.9	37.6	39.2
S88-19561	40.2	39.3	40.4	41.2	39.7	39.3

UNIFORM TEST IV, 1992

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH	Lubbuck TX
Delsoy 4210	20.7	20.9	20.4	20.8	20.6	21.6
Flyer (E)	20.5	20.5	20.9	20.3	20.1	21.4
Ripley (dtl)	20.8	20.7	20.8	20.6	20.9	21.6
Spencer (IV)	20.8	21.4	20.4	20.1	21.4	21.6
Spry (L)	20.2	19.8	21.4	20.5	18.9	21.7
C1804	19.9	20.0	19.8	20.0	19.9	20.5
C1841	21.0	20.7	21.0	20.9	21.5	21.9
C1842	20.8	20.9	20.5	20.4	21.4	21.2
C1851	20.8	21.0	20.4	21.1	20.8	21.6
HC85-6571	21.0	20.5	20.9	21.1	21.3	22.0
HC86-3403(DT1)	20.9	20.7	20.8	20.8	21.4	22.4
HC87-3212	21.4	20.8	21.6	21.4	21.7	22.3
HC87-3330	20.8	20.4	21.1	20.9	20.8	22.4
HS89-5467	20.8	20.7	20.4	19.9	22.1	22.3
K1191	20.4	20.5	20.8	19.7	20.6	21.9
K1212	20.1	19.8	19.9	19.6	20.9	22.5
K1213	20.4	20.8	20.5	19.8	20.6	21.3
Ky88-1195	20.3	20.3	20.4	19.9	20.7	21.0
Ky88-5037	20.4	20.7	19.7	20.4	20.9	21.2
LN88-7616	20.2	20.8	20.1	20.0	19.7	21.6
LS86-1922	20.2	20.5	20.4	19.3	20.5	20.6
LS87-1123	20.5	20.6	20.6	19.5	21.1	20.8
LS87-1311	20.7	21.1	20.4	19.9	21.2	22.0
LS88-213	20.7	20.5	21.2	20.2	20.8	21.7
LS88-240	20.2	19.6	21.2	19.4	20.6	21.3
LS88-519	19.9	20.1	20.1	19.6	19.6	20.7
Md88-5241	20.0	20.4	20.7	19.0	20.0	21.6
S86-4496	20.6	21.4	19.8	19.9	21.3	21.2
S86-4499	20.8	20.6	20.1	20.7	21.6	21.5
S88-19561	19.8	20.2	19.7	19.3	20.1	20.9

PRELIMINARY TEST IVA, 1992

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
Spencer (IV)	A75-305022 x Century	F5	
Spry (L)	L78-8694 x L78L-449	F5	
HC88-4257	SB27 x Asgrow A3127	F5	
HC88-4336	HC80-1946 x Asgrow A3127	F5	
HC89-2170	HC80-1946 x Asgrow A3127	F5	
HC89-2207	HC80-1946 x Asgrow A3127	F5	
HC89-2237	HC80-1944 x Asgrow A3127	F5	
HC89-2241	HC80-1944 x Asgrow A3127	F5	
LN88-7740	A82-267015 x Asgrow A2943	F5	Rps1-a
LN89-1039	Sherman x Asgrow A3205	F5	
LN89-1179	Sherman x Asgrow A3205	F5	
LN89-2546	Hobbit 87 x Resnik	F5	Rps1-k
LN89-2563	Hobbit 87 x Resnik	F5	Rps1-k
LN89-2576	Hobbit 87 x Resnik	F5	Rps1-k
LN89-2833	Hobbit 87 x Resnik	F5	Rps1-k
LN89-3502	Hobbit 87 x Asgrow A3205	F5	
LN89-3544	Hobbit 87 x Asgrow A3205	F5	
LN89-3615	Hobbit 87 x Asgrow A3205	F5	Rps1-k
LS89-1522	LS77-952 x LS79-330	F6	SCN 3
LS89-1527	LS77-952 x LS79-330	F6	SCN 3
LS89-1608	LS77-952 x LS79-330	F6	SCN 3
LS89-1615	LS77-952 x LS79-330	F6	SCN 3
LS89-1619	LS77-952 x LS79-330	F6	SCN 3
LS89-1635	LS77-952 x LS79-330	F6	SCN 3
LS89-1714	LS77-952 x LS79-330	F6	SCN 3
LS89-2920	LS77-952 x LS79-330	F6	SCN 3
Md89-5311	Morgan x Tn83-7	F5	
Md89-5384	D83-2886 x Ripley	F5	

PRELIMINARY TEST IVA, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Germination Lafayette %
Flyer (E)	WTBDYBlI	1	84
Spencer (IV)	WTBDYBrI	1	84
Spry (L)	PTTDYBlD	2	84
HC88-4257	PTBIYBlI	1	76
HC88-4336	PTTDYBlI	1	76
HC89-2170	PTBDYBlI	1	92
HC89-2207	PTTDYBlI	1	82
HC89-2237	PTTDYBlI	1	74
HC89-2241	PTTDYBlI	1	74
LN88-7740	PGBDYGrI	1	78
LN89-1039	PGBDYBfI	1	58
LN89-1179	WGBDYBfI	1	74
LN89-2546	PTTDYBlI	1	70
LN89-2563	WTTDYBlI	1	78
LN89-2576	PTTIYBlI	1	74
LN89-2833	PTTDYBlI	1	76
LN89-3502	PTBIYBlI	1	72
LN89-3544	WTBIYBlI	1	72
LN89-3615	PTTIYBrI	1	84
LS89-1522	WTTDYGrD	1	88
LS89-1527	WGTDYYD	1	86
LS89-1608	WTTDYGrD	2	84
LS89-1615	WTTDYGrD	1	88
LS89-1619	WTTDYGrD	1	82
LS89-1635	WTTDYGrD	1	92
LS89-1714	WTTDYGrD	1	84
LS89-2920	WTTSTGrD	1	94
Md89-5311	WTTSYBlI	1	90
Md89-5384	WGTSYBfD	1	100

PRELIMINARY TEST IVA, 1992

DISEASE DATA

Strain	PR			PS	PSB	SMV
	Phyto. Tolerance NW Branch	Urbana Race 1	Lafayette Race 7	Lafayette a %	Lafayette n %	a Score
Flyer (E)	3.4	R	R	13	4	3E
Spencer (IV)	3.4	S	S	15	4	2M
Spry (L)	4.5	S	S	3	2	3E
HC88-4257	3.0	S	S	11	10	1
HC88-4336	3.0	R	S	5	12	2E
HC89-2170	2.4	R	S	2	0	4E
HC89-2207	2.9	S	S	1	0	1
HC89-2237	3.5	S	S	15	2	1
HC89-2241	3.5	S	S	8	4	1
LN88-7740	3.0	R	S	6	0	1
LN89-1039	3.4	S	S	12	4	2E
LN89-1179	3.6	S	S	27	0	2M
LN89-2546	2.6	R	H	2	4	1
LN89-2563	3.4	R	R	7	2	1
LN89-2576	3.8	R	R	16	10	1
LN89-2833	3.3	R	R	25	2	1
LN89-3502	2.9	S	S	3	6	3M
LN89-3544	3.1	H	H	9	2	2M
LN89-3615	3.1	R	R	0	0	1
LS89-1522	2.0	R	H	0	0	4E
LS89-1527	2.6	S	S	0	0	1
LS89-1608	2.5	S	S	0	0	3E
LS89-1615	2.6	R	S	0	0	3E
LS89-1619	2.9	H	S	0	0	5E
LS89-1635	4.5	H	S	0	0	2M
LS89-1714	4.3	S	S	0	0	4S
LS89-2920	2.6	H	S	0	0	5S
Md89-5311	3.3	S	S	5	0	3E
Md89-5384	5.4	S	S	0	0	3E

PRELIMINARY TEST IVA, 1992

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 4 %	 Oil 4 %
Flyer (E)	55.1	6	-4.9	1.5	35	1.5	15.0	41.4	20.7
Spencer (IV)	56.6	2	09/27*	1.4	35	1.8	18.4	41.8	20.7
Spry (L)	53.8	10	8.2	3.4	33	2.0	16.9	40.7	20.2
HC88-4257	53.8	10	-2.9	2.3	40	1.8	15.5	41.5	20.3
HC88-4336	50.3	19	-6.9	2.8	41	1.6	14.5	41.0	20.9
HC89-2170	63.3	1	4.1	2.0	39	1.6	14.6	43.0	20.0
HC89-2207	55.9	5	-0.3	2.0	40	1.5	13.1	42.3	20.1
HC89-2237	54.4	7	-7.0	1.6	35	1.8	15.1	42.8	19.6
HC89-2241	56.0	4	-5.7	1.8	36	1.7	15.1	42.9	19.9
LN88-7740	51.6	14	-6.1	1.9	39	1.9	14.6	41.7	20.4
LN89-1039	52.9	12	-2.4	1.4	32	1.8	14.4	41.9	20.3
LN89-1179	56.5	3	-1.0	1.6	33	1.8	15.6	41.1	20.6
LN89-2546	53.9	9	0.3	1.1	32	1.7	16.5	41.6	20.9
LN89-2563	50.5	18	-1.9	1.8	33	1.6	14.0	39.9	21.2
LN89-2576	49.3	22	-5.7	1.4	32	1.8	16.2	40.1	21.1
LN89-2833	51.9	13	0.1	1.1	31	1.7	16.6	41.7	21.2
LN89-3502	51.6	14	0.0	1.6	36	1.7	15.0	40.2	21.3
LN89-3544	51.3	17	-1.4	2.1	37	1.9	16.9	40.6	21.1
LN89-3615	54.3	8	3.9	1.7	32	1.6	14.9	41.0	20.7
LS89-1522	51.4	16	10.7	3.3	36	1.9	12.4	41.2	17.8
LS89-1527	49.0	24	11.3	2.8	34	1.9	11.8	40.6	18.0
LS89-1608	46.0	28	11.0	3.1	34	1.9	12.2	40.7	18.2
LS89-1615	47.5	27	10.8	3.2	35	1.9	12.2	40.6	18.2
LS89-1619	45.9	29	10.6	3.2	32	1.8	11.9	40.7	18.3
LS89-1635	47.8	25	11.1	3.0	34	1.6	12.6	41.0	18.1
LS89-1714	47.8	25	10.8	3.3	35	2.0	11.8	40.9	18.1
LS89-2920	49.1	23	11.0	3.3	35	1.9	12.6	40.5	18.7
Md89-5311	50.2	20	6.8	2.4	43	1.9	16.7	41.0	20.6
Md89-5384	49.7	21	8.8	3.1	31	1.9	14.6	39.5	18.6

* 135.9 Days After Planting

PRELIMINARY TEST IVA, 1992

YIELD (bu/a)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	55.1	55.4	61.7	49.5	61.1	53.4	49.9	58.1	43.2	63.6
Spencer (IV)	56.6	50.1	69.1	53.7	63.8	53.0	43.4	53.8	50.4	71.9
Spry (L)	53.8	53.6	59.8	50.4	59.9	51.9	44.6	49.1	59.0	55.5
HC88-4257	53.8	49.8	58.9	49.8	55.1	54.5	45.0	51.9	51.6	67.5
HC88-4336	50.3	48.3	44.8	51.7	52.6	56.8	38.0	49.6	45.6	65.4
HC89-2170	63.3	58.3	57.5	76.2	69.3	60.5	49.9	60.7	70.7	66.7
HC89-2207	55.9	55.6	59.0	56.8	60.1	53.3	44.5	52.9	59.0	62.1
HC89-2237	54.4	48.7	62.4	62.1	68.2	52.1	40.1	55.5	37.1	63.5
HC89-2241	56.0	44.5	64.6	56.5	70.7	53.1	42.8	61.9	46.4	63.8
LN88-7740	51.6	51.8	54.9	67.6	59.7	49.9	35.3	49.6	36.4	59.4
LN89-1039	52.9	55.4	64.8	55.2	63.0	58.7	38.6	52.0	21.3	67.5
LN89-1179	56.5	61.0	65.7	61.1	71.5	57.8	42.8	61.2	21.7	65.5
LN89-2546	53.9	58.7	65.4	48.3	65.3	58.4	40.8	54.7	28.7	64.8
LN89-2563	50.5	51.1	59.6	32.2	64.7	53.4	36.6	48.1	45.8	63.0
LN89-2576	49.3	57.8	62.4	37.4	50.2	54.6	34.3	55.7	29.0	62.3
LN89-2833	51.9	54.6	60.8	30.2	61.7	54.2	41.1	59.3	39.8	65.4
LN89-3502	51.6	50.8	65.4	42.3	62.9	50.8	36.8	54.8	40.6	60.4
LN89-3544	51.3	54.7	66.9	56.8	43.6	60.8	39.9	50.8	23.5	64.9
LN89-3615	54.3	61.7	68.0	47.9	58.5	50.3	37.7	41.3	52.9	70.2
LS89-1522	51.4	48.4	55.0	63.0	55.6	54.6	41.7	49.6	54.9	40.0
LS89-1527	49.0	54.9	49.6	61.3	52.7	42.3	40.4	45.7	51.8	42.6
LS89-1608	46.0	50.3	56.7	52.3	50.2	43.4	37.1	45.3	45.7	33.2
LS89-1615	47.5	51.1	53.4	57.3	54.5	43.9	37.8	42.2	47.5	39.5
LS89-1619	45.9	49.2	52.8	50.4	51.9	41.6	38.4	44.6	48.2	36.1
LS89-1635	47.8	53.6	51.2	49.1	53.4	40.8	40.4	51.1	46.9	43.9
LS89-1714	47.8	62.6	50.0	53.8	54.2	37.0	39.2	53.7	46.8	32.6
LS89-2920	49.1	55.4	47.2	53.1	56.4	45.1	40.1	49.2	56.1	39.3
Md89-5311	50.2	51.5	58.6	42.8	47.3	48.8	49.2	46.8	45.6	60.9
Md89-5384	49.7	48.9	51.8	53.4	50.8	50.9	44.5	49.2	50.9	46.6
C.V. (%)		6.5	5.2	20.3	6.2	8.0	10.8	10.6	15.8	7.9
L.S.D. (5%)		7.1	6.2	21.8	7.4	5.3	ns	11.3	14.7	9.1
Row Sp. (In.)		30	30	24	30	30	30	30	15	7
Rows/Plot		4	4	4	4	4	4	4	6	8
Reps		2	2	2	2	2	2	2	2	2

PRELIMINARY TEST IVA, 1992

YIELD RANK

Strain	Yield Rank	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	6	8	11	21	11	10	1	5	20	12
Spencer (IV)	2	22	1	13	7	14	8	10	10	1
Spry (L)	10	14	13	18	13	16	5	22	2	20
HC88-4257	10	23	16	20	18	8	4	14	8	3
HC88-4336	19	28	29	17	23	6	22	17	18	7
HC89-2170	1	5	18	1	3	2	1	3	1	5
HC89-2207	5	7	15	8	12	12	6	12	2	16
HC89-2237	7	26	9	4	4	15	16	7	23	13
HC89-2241	4	29	8	10	2	13	9	1	15	11
LN88-7740	14	16	21	2	14	20	28	17	24	19
LN89-1039	12	8	7	11	8	3	20	13	29	3
LN89-1179	3	3	4	6	1	5	9	2	28	6
LN89-2546	9	4	5	23	5	4	13	9	26	10
LN89-2563	18	18	14	28	6	10	27	23	16	14
LN89-2576	22	6	9	27	26	7	29	6	25	15
LN89-2833	13	13	12	29	10	9	12	4	22	7
LN89-3502	14	20	5	26	9	18	26	8	21	18
LN89-3544	17	12	3	8	29	1	18	16	27	9
LN89-3615	8	2	2	24	15	19	24	29	6	2
LS89-1522	16	27	20	3	17	22	11	17	5	24
LS89-1527	24	11	27	5	22	26	14	25	7	23
LS89-1608	28	21	19	16	26	25	25	26	17	28
LS89-1615	27	18	22	7	19	24	23	28	12	25
LS89-1619	29	24	23	18	24	27	21	27	11	27
LS89-1635	25	14	25	22	21	28	14	15	13	22
LS89-1714	25	1	26	12	20	29	19	11	14	29
LS89-2920	23	8	28	15	16	23	16	20	4	26
Md89-5311	20	17	17	25	28	21	3	24	18	17
Md89-5384	21	25	24	14	25	17	6	21	9	21

PRELIMINARY TEST IVA, 1992

MATURITY (date)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	-4.9	-6	-4	-7	-4	-4	-5	-5	-7	-2
Spencer (IV)	09/27	09/24	09/28	10/02	09/28	09/30	10/03	09/12	09/28	09/30
Spry (L)	8.2	13	12	6	10	8	4	5	6	10
HC88-4257	-2.9	-2	0	-3	-3	-4	-5	-4	-5	0
HC88-4336	-6.9	-4	-4	-5	-6	-13	-9	-7	-10	-4
HC89-2170	4.1	4	9	7	3	5	-4	3	5	5
HC89-2207	-0.3	0	5	-3	-1	-2	-6	2	2	0
HC89-2237	-7.0	-6	-4	-9	-4	-11	-8	-3	-8	-10
HC89-2241	-5.7	-5	-4	-7	-2	-8	-6	-6	-7	-6
LN88-7740	-6.1	-8	-4	-5	-3	-6	-10	-6	-9	-4
LN89-1039	-2.4	-4	0	-3	-1	-2	-7	-1	-4	0
LN89-1179	-1.0	2	-1	0	-2	-2	-1	-1	-4	0
LN89-2546	0.3	3	1	5	-1	-2	-2	-1	0	0
LN89-2563	-1.9	0	-2	-4	-1	-4	-2	-3	-1	0
LN89-2576	-5.7	-4	-4	-4	-3	-11	-7	-5	-8	-5
LN89-2833	0.1	0	0	-2	-1	-2	-2	8	0	0
LN89-3502	0.0	-1	0	5	-2	-2	-3	1	1	1
LN89-3544	-1.4	0	-1	2	-2	-6	-3	-3	0	0
LN89-3615	3.9	7	6	7	7	1	2	-1	3	3
LS89-1522	10.7	12	16	9	12	12	4	8	11	12
LS89-1527	11.3	16	16	10	9	12	6	11	9	13
LS89-1608	11.0	13	16	9	13	12	6	6	11	13
LS89-1615	10.8	16	16	8	10	12	5	7	10	13
LS89-1619	10.6	15	16	8	11	12	4	7	10	12
LS89-1635	11.1	14	16	7	10	12	4	14	10	13
LS89-1714	10.8	14	16	8	12	12	6	4	12	13
LS89-2920	11.0	12	16	10	13	14	5	6	10	13
Md89-5311	6.8	10	9	4	8	12	2	6	3	7
Md89-5384	8.8	10	-4	9	14	12	5	12	8	13
Date Planted	05/14	05/19	05/07	05/27	05/21	05/15	05/28	04/30	05/07	05/05
Days to Mature	135.9	128	144	128	130	138	128	135	144	148

PRELIMINARY TEST IVA, 1992

LODGING (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.5	2.0	1.5	1.0	1.0	3.0	2.0	1.3	1.0	1.0
Spencer (IV)	1.4	1.8	1.5	1.0	1.0	2.0	1.8	1.5	1.0	1.3
Spry (L)	3.4	4.5	4.0	2.3	4.0	3.0	3.3	3.5	1.5	4.5
HC88-4257	2.3	2.8	2.5	1.8	2.0	4.0	2.5	2.0	1.3	2.0
HC88-4336	2.8	2.8	3.0	1.5	3.5	4.0	3.0	2.3	1.5	3.5
HC89-2170	2.0	2.2	2.0	1.5	2.0	3.0	2.0	1.8	1.6	2.0
HC89-2207	2.0	2.5	1.5	1.3	2.0	3.0	2.0	2.0	1.4	2.3
HC89-2237	1.6	2.0	1.5	1.0	2.0	2.0	1.8	1.5	1.0	2.0
HC89-2241	1.8	3.5	1.5	1.3	1.0	3.0	2.0	1.5	1.0	1.5
LN88-7740	1.9	3.5	1.5	1.0	2.0	3.0	1.0	1.5	1.1	2.8
LN89-1039	1.4	1.5	1.5	1.0	1.5	2.0	1.5	1.5	1.0	1.0
LN89-1179	1.6	2.2	2.0	1.0	1.0	3.0	1.8	1.3	1.0	1.5
LN89-2546	1.1	1.0	1.0	1.0	1.0	1.0	1.5	1.3	1.0	1.0
LN89-2563	1.8	3.2	2.0	1.0	1.5	2.0	1.8	1.5	1.0	2.3
LN89-2576	1.4	1.5	1.5	1.0	1.5	2.0	1.3	1.3	1.0	1.5
LN89-2833	1.1	1.5	1.0	1.0	1.0	1.0	1.3	1.3	1.0	1.0
LN89-3502	1.6	1.8	2.0	1.0	1.5	2.0	2.0	1.8	1.1	1.5
LN89-3544	2.1	3.2	2.5	1.5	2.5	3.0	2.0	1.3	1.0	2.0
LN89-3615	1.7	2.0	2.5	1.3	1.5	2.0	2.0	1.5	1.1	1.5
LS89-1522	3.3	5.0	4.5	1.5	3.0	4.0	3.3	2.3	1.5	4.3
LS89-1527	2.8	4.8	3.0	1.5	3.0	4.0	2.8	2.0	1.3	3.0
LS89-1608	3.1	4.8	4.0	1.3	3.0	4.0	3.0	2.0	1.5	4.0
LS89-1615	3.2	5.0	3.5	1.3	3.5	4.0	3.5	2.5	1.3	4.0
LS89-1619	3.2	5.0	4.0	1.0	3.5	4.0	3.3	2.3	1.5	4.3
LS89-1635	3.0	4.8	4.0	1.5	3.0	4.0	3.0	1.8	1.2	3.8
LS89-1714	3.3	5.0	4.0	1.0	3.5	4.0	3.3	3.0	2.0	3.8
LS89-2920	3.3	5.0	4.0	1.3	3.0	4.0	3.5	2.8	1.4	4.3
Md89-5311	2.4	4.2	2.5	1.3	2.5	3.0	2.8	2.0	1.1	1.8
Md89-5384	3.1	4.8	3.0	1.3	4.5	3.0	2.3	2.8	1.3	4.5

PRELIMINARY TEST IVA, 1992

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	35	42	44	32	37	34	25	35	29	33
Spencer (IV)	35	46	47	33	30	41	24	35	26	36
Spry (L)	33	44	35	32	32	36	24	25	30	38
HC88-4257	40	51	47	36	46	42	27	40	30	43
HC88-4336	41	54	52	41	39	43	27	37	36	44
HC89-2170	39	49	47	31	40	39	27	37	37	44
HC89-2207	40	48	48	36	42	43	27	41	32	41
HC89-2237	35	42	43	31	36	37	25	37	28	38
HC89-2241	36	40	42	35	41	34	25	37	29	37
LN88-7740	39	46	50	39	41	41	24	39	30	40
LN89-1039	32	42	40	29	35	35	22	33	21	28
LN89-1179	33	44	43	33	33	36	21	33	18	34
LN89-2546	32	36	42	29	36	34	22	31	26	33
LN89-2563	33	40	41	28	35	33	23	33	27	34
LN89-2576	32	37	41	29	33	35	23	31	23	35
LN89-2833	31	34	39	29	34	34	24	32	24	31
LN89-3502	36	42	45	33	34	37	24	37	31	38
LN89-3544	37	46	46	35	38	36	25	34	31	39
LN89-3615	32	36	40	28	35	36	23	28	28	33
LS89-1522	36	44	40	32	35	44	24	39	26	39
LS89-1527	34	42	37	30	39	36	22	35	27	36
LS89-1608	34	48	36	31	30	41	21	30	28	43
LS89-1615	35	50	33	31	36	39	23	30	27	44
LS89-1619	32	46	34	29	33	36	23	30	22	38
LS89-1635	34	43	36	28	35	39	23	40	27	36
LS89-1714	35	55	33	30	33	33	24	37	27	39
LS89-2920	35	45	38	31	35	39	25	33	31	34
Md89-5311	43	58	52	35	48	44	32	48	30	42
Md89-5384	31	38	37	30	32	37	18	28	24	39

PRELIMINARY TEST IVA, 1992

SEED QUALITY (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing ton KY	Queens town MD	Colum-bia MO	MT. Orab OH	S.Charle ston OH
Flyer (E)	1.5	1.0	1.2	1.0	2.0	1.0	2.8	2.0	1.3	1.3
Spencer (IV)	1.8	1.0	1.2	1.0	2.0	1.0	3.3	3.0	1.5	2.0
Spry (L)	2.0	2.0	1.5	1.0	2.0	1.0	2.8	3.0	1.3	3.5
HC88-4257	1.8	2.0	1.2	1.0	1.0	1.0	2.8	3.0	1.5	2.5
HC88-4336	1.6	2.0	1.2	1.0	2.0	1.0	2.0	3.0	1.0	1.5
HC89-2170	1.6	2.0	1.2	1.0	2.0	1.0	2.8	2.0	1.1	1.5
HC89-2207	1.5	1.0	1.2	1.0	2.0	1.0	2.5	2.0	1.0	2.0
HC89-2237	1.8	1.0	1.2	1.0	3.0	1.0	2.5	3.0	1.6	2.0
HC89-2241	1.7	1.0	1.2	1.0	3.0	1.0	2.0	3.0	1.3	2.0
LN88-7740	1.9	2.0	1.2	1.0	2.0	2.0	2.8	3.0	1.6	1.5
LN89-1039	1.8	1.0	1.2	1.0	2.0	2.0	3.0	2.0	1.4	2.5
LN89-1179	1.8	2.0	1.2	1.0	2.0	2.0	3.0	2.0	1.4	2.0
LN89-2546	1.7	1.0	1.2	1.0	2.0	1.0	3.0	3.0	1.1	2.0
LN89-2563	1.6	2.0	1.2	1.0	2.0	1.0	2.0	3.0	1.1	1.2
LN89-2576	1.8	2.0	1.2	1.0	2.0	2.0	2.8	2.0	1.0	2.0
LN89-2833	1.7	1.0	1.2	1.0	3.0	1.0	3.0	2.0	1.3	2.0
LN89-3502	1.7	1.0	1.2	1.0	2.0	2.0	2.8	2.0	1.1	2.5
LN89-3544	1.9	2.0	1.2	1.0	3.0	1.0	2.8	3.0	1.5	2.0
LN89-3615	1.6	1.0	1.2	1.0	3.0	1.0	2.5	2.0	1.3	1.5
LS89-1522	1.9	1.0	1.6	1.0	2.0	2.0	1.8	3.0	1.0	4.0
LS89-1527	1.9	1.0	1.4	1.0	3.0	1.0	2.5	3.0	1.0	3.5
LS89-1608	1.9	1.0	1.8	1.0	2.0	2.0	1.8	2.0	1.1	4.0
LS89-1615	1.9	1.0	1.2	1.0	2.0	2.0	2.5	3.0	1.0	3.5
LS89-1619	1.8	1.0	1.2	1.0	2.0	2.0	2.5	2.0	1.0	3.5
LS89-1635	1.6	1.0	1.4	1.0	2.0	1.0	2.3	2.0	1.1	3.0
LS89-1714	2.0	1.0	1.4	1.0	2.0	2.0	2.5	3.0	1.0	4.0
LS89-2920	1.9	2.0	1.4	1.0	2.0	2.0	2.3	2.0	1.0	3.5
Md89-5311	1.9	2.0	1.2	1.0	2.0	2.0	3.3	2.0	1.3	2.5
Md89-5384	1.9	2.0	1.2	1.0	2.0	2.0	2.0	2.0	1.1	3.5

PRELIMINARY TEST IVA, 1992

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	15.0	15.2	15.4	15.4	16.4	16.4	15.6	12.5	12.9	14.8
Spencer (IV)	18.4	18.2	18.9	18.9	18.8	19.9	19.5	15.0	17.2	19.0
Spry (L)	16.9	18.4	18.4	16.5	16.3	16.4	17.0	15.5	17.6	15.6
HC88-4257	15.5	15.8	16.4	15.4	16.4	17.2	15.6	13.0	13.8	15.6
HC88-4336	14.5	15.9	14.0	16.2	11.4	16.2	14.9	14.0	13.0	15.1
HC89-2170	14.6	14.8	14.1	17.1	14.8	15.0	15.1	12.5	13.8	14.3
HC89-2207	13.1	13.0	12.7	13.2	16.6	13.4	14.1	10.0	12.1	12.4
HC89-2237	15.1	14.5	16.0	16.5	15.1	16.0	17.1	12.5	13.2	15.3
HC89-2241	15.1	14.4	16.2	16.2	15.8	16.3	16.1	12.0	14.1	14.8
LN88-7740	14.6	15.8	14.5	15.0	12.2	16.6	16.3	13.0	14.0	14.3
LN89-1039	14.4	14.6	15.2	14.9	14.8	15.7	14.7	12.5	13.9	13.6
LN89-1179	15.6	16.0	17.1	16.3	17.0	16.3	15.4	12.5	14.0	15.5
LN89-2546	16.5	17.0	17.8	17.6	17.7	17.5	16.6	13.5	14.7	16.2
LN89-2563	14.0	14.2	15.8	13.8	14.4	15.0	13.4	12.0	13.6	14.1
LN89-2576	16.2	16.9	16.2	17.7	17.2	17.6	15.9	14.5	14.1	16.1
LN89-2833	16.6	17.0	18.2	15.1	17.1	18.0	17.1	15.0	15.2	16.7
LN89-3502	15.0	15.4	16.8	17.6	11.2	15.4	16.4	13.0	14.3	14.8
LN89-3544	16.9	16.6	17.1	18.9	17.2	17.6	17.4	15.0	15.5	16.4
LN89-3615	14.9	15.4	15.6	16.7	15.1	15.0	15.9	11.5	14.1	14.8
LS89-1522	12.4	12.7	12.8	13.3	12.7	13.9	12.8	10.5	11.8	10.7
LS89-1527	11.8	12.6	12.1	13.9	11.4	12.3	12.2	10.0	11.4	10.7
LS89-1608	12.2	12.5	13.0	14.4	11.3	13.4	12.3	11.5	11.4	10.2
LS89-1615	12.2	12.4	12.5	13.2	11.4	13.1	12.4	13.0	11.6	10.5
LS89-1619	11.9	12.6	13.0	12.9	11.6	12.4	12.0	11.0	11.2	10.1
LS89-1635	12.6	12.6	12.6	14.3	16.5	12.8	11.6	11.5	11.1	10.5
LS89-1714	11.8	12.2	12.5	13.2	11.7	12.3	11.5	11.0	11.7	10.2
LS89-2920	12.6	12.7	12.2	13.9	16.1	12.9	12.3	11.0	11.5	10.7
Md89-5311	16.7	17.0	18.3	17.6	17.0	17.1	16.5	14.5	15.3	16.9
Md89-5384	14.6	14.2	13.4	17.7	14.8	16.0	12.9	14.5	14.1	13.5

PRELIMINARY TEST IVA, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH
Flyer (E)	41.4	41.0	41.6	41.7	41.3
Spencer (IV)	41.8	41.0	41.4	43.7	41.1
Spry (L)	40.7	40.6	39.8	41.5	40.7
HC88-4257	41.5	40.4	42.0	42.0	41.4
HC88-4336	41.0	40.6	40.9	42.8	39.8
HC89-2170	43.0	41.8	42.5	42.9	44.6
HC89-2207	42.3	41.8	42.1	42.8	42.6
HC89-2237	42.8	41.3	42.4	44.6	42.7
HC89-2241	42.9	42.4	42.3	43.8	43.1
LN88-7740	41.7	42.1	41.0	43.3	40.2
LN89-1039	41.9	42.0	41.1	43.0	41.5
LN89-1179	41.1	41.5	40.6	42.4	39.9
LN89-2546	41.6	40.1	41.2	43.4	41.5
LN89-2563	39.9	40.0	39.0	40.9	39.8
LN89-2576	40.1	39.9	39.7	41.2	39.6
LN89-2833	41.7	42.2	41.8	42.5	40.3
LN89-3502	40.2	40.0	40.0	41.1	39.8
LN89-3544	40.6	40.0	40.7	41.6	40.2
LN89-3615	41.0	40.3	40.2	43.2	40.4
LS89-1522	41.2	40.8	40.1	41.2	42.5
LS89-1527	40.6	39.9	40.6	41.2	40.7
LS89-1608	40.7	40.3	39.9	41.3	41.2
LS89-1615	40.6	40.4	39.9	41.2	41.0
LS89-1619	40.7	39.7	40.3	42.0	40.7
LS89-1635	41.0	40.4	39.8	41.5	42.1
LS89-1714	40.9	40.6	40.0	40.8	42.0
LS89-2920	40.5	39.9	40.2	41.5	40.4
Md89-5311	41.0	40.1	41.5	42.4	40.0
Md89-5384	39.5	39.6	39.7	40.0	38.6

PRELIMINARY TEST IVA, 1992

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH
Flyer (E)	20.7	21.1	20.2	21.2	20.1
Spencer (IV)	20.7	20.9	20.7	20.1	21.0
Spry (L)	20.2	19.7	20.5	20.2	20.4
HC88-4257	20.3	21.0	19.8	19.9	20.4
HC88-4336	20.9	20.7	21.3	20.2	21.3
HC89-2170	20.0	20.1	20.3	20.1	19.4
HC89-2207	20.1	20.1	19.8	20.2	20.4
HC89-2237	19.6	20.5	20.1	18.6	19.2
HC89-2241	19.9	20.0	20.3	19.8	19.6
LN88-7740	20.4	20.2	20.8	19.5	21.1
LN89-1039	20.3	20.1	20.6	19.7	20.6
LN89-1179	20.6	20.1	21.0	19.6	21.7
LN89-2546	20.9	21.3	21.2	19.9	21.2
LN89-2563	21.2	21.2	21.5	20.7	21.2
LN89-2576	21.1	21.2	21.5	20.8	20.8
LN89-2833	21.2	20.7	21.4	20.7	21.9
LN89-3502	21.3	21.4	21.3	20.7	21.7
LN89-3544	21.1	21.2	21.2	20.5	21.3
LN89-3615	20.7	21.1	20.8	19.8	21.0
LS89-1522	17.8	16.8	18.6	18.3	17.6
LS89-1527	18.0	17.4	18.6	18.2	17.9
LS89-1608	18.2	17.3	19.7	18.1	17.7
LS89-1615	18.2	17.6	18.5	18.4	18.4
LS89-1619	18.3	17.9	19.0	18.0	18.3
LS89-1635	18.1	17.8	18.8	18.5	17.1
LS89-1714	18.1	17.5	18.8	18.1	17.9
LS89-2920	18.7	18.9	19.1	18.1	18.6
Md89-5311	20.6	21.6	20.4	19.2	21.1
Md89-5384	18.6	18.3	19.3	17.9	18.9

PRELIMINARY TEST IVB, 1992

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
Spencer (IV)	A75-305022 x Century	F5	
Spry (L)	L78-8694 x L78L-449	F5	
C1853	(Spencer[2] x Pella 86) x Resnik	F5	
C1854	(Spencer[2] x Pella 86) x Resnik	F5	
C1855	(Spencer[2] x Pella 86) x Resnik	F5	
HS90-3490	HS84-6276 x Conrad	F5	
K1233	Hutcheson x Asgrow A3427	F5	
K1234	Asgrow A3427 x Ripley	F5	
K1235	Hutcheson x Asgrow A3427	F5	
K1236	Asgrow A3427 x Ripley	F5	
K1237	Hutcheson x Asgrow A3966	F5	
K1238	Elgin x Asgrow A3966	F5	
K1239	Hutcheson x Asgrow A3427	F5	
Ky89-03155	Ring Around RA452 x Pioneer 9471	F5	
Ky89-07047	Coker 425 x Pioneer 9471	F5	
Ky89-13054	Asgrow A5149 x Pioneer 9471	F5	
Ripley (dtl)	Hodgson x V68-1034	F5	dtl
HC83-193	Elf x D75-10169	F7	dtl
HC85-2176	Sprite x L77-1836	F5	dtl
HC87-6037	Coker 237 x HC78-676	F5	dtl
HC88-11	Ripley x Essex	F5	dtl
HC88-454	HC80-585 x Pixie	F5	dtl
HC88-461	HC78-676BC x Pixie	F5	dtl
HC88-582	HC78-676BC x Pixie	F5	dtl
HC89-50	Ripley x Essex	F5	dtl
HC89-52	Ripley x Essex	F5	dtl
HC89-62	Ripley x Essex	F5	dtl
Ky89-09091	Ripley x Coker 425	F5	dtl

PRELIMINARY TEST IVB, 1992

DESCRIPTIVE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Germination Lafayette %
Flyer (E)	PTTSYBlI	1	84
Spencer (IV)	WTBDYBrI	1	84
Spry (L)	PTTDYBlD	2	84
C1853	P+WTTDYTBlI	1	78
C1854	PTTDYBlI	1	92
C1855	PTTDYIbI	2	90
HS90-3490	PTBIYBfI	2	88
K1233	WTTDYBrI	1	86
K1234	PTTDYBrI	1	74
K1235	WTTDDYBlI	1	84
K1236	PTTDYBlI	1	88
K1237	PTBDYBl+BrI	1	82
K1238	PTBSYBlI	1	86
K1239	PTTDYBrI	1	96
Ky89-03155	WTBIYBlI	2	58
Ky89-07047	WTTDYBlI	2	82
Ky89-13054	WTTIYBlI	1	78
Ripley (dtl)	PGTIYBfD	1	86
HC83-193	PTTSYBlD	1	50
HC85-2176	PTTIYBlD	1	66
HC87-6037	WTTSYBrD	1	80
HC88-11	PGTIYBfD	1	70
HC88-454	WTTSYBlD	1	76
HC88-461	PTTSYBlD	1	68
HC88-582	PTBIYBlD	1	70
HC89-50	PGTDYBfD	1	82
HC89-52	PGTDYBfD	1	64
HC89-62	PGBIYBfD	1	84
Ky89-09091	PBBDYBlI	1	96

PRELIMINARY TEST IVB, 1992

DISEASE DATA

Strain	PR			PS	PSB	SMV
	Phyto. Tolerance NW Branch	Urbana Race 1	Lafayette Race 7	Lafayette a %	Lafayette n %	a Score
Flyer (E)	3.4	R	R	13	4	3E
Spencer (IV)	3.8	S	S	15	4	2M
Spry (L)	2.8	S	S	3	2	3E
C1853	3.4	R	R	8	4	2E
C1854	3.3	R	R	6	2	1
C1855	2.8	R	R	2	0	2E
HS90-3490	3.3	S	S	5	0	2M
K1233	3.5	S	S	14	10	3E
K1234	3.5	H	S	9	6	5S
K1235	3.1	R	S	1	4	3S
K1236	3.4	G	S	5	2	3E
K1237	2.9	H	S	17	2	2E
K1238	3.4	S	S	1	0	1
K1239	3.0	R	R	0	2	5E
Ky89-03155	3.5	S	S	16	20	2M
Ky89-07047	3.0	S	S	13	8	3S
Ky89-13054	2.8	S	S	0	0	2E
Ripley (dtl)	3.3	S	S	0	0	1
HC83-193	3.3	R	R	4	0	2M
HC85-2176	3.6	R	R	6	0	2M
HC87-6037	4.1	H	S	11	0	2M
HC88-11	3.5	H	S	18	2	1
HC88-454	3.3	H	S	0	4	1
HC88-461	3.9	R	S	18	0	3M
HC88-582	4.1	R	S	25	4	3M
HC89-50	3.4	R	S	12	4	1
HC89-52	3.5	R	S	19	2	1
HC89-62	3.5	H	H	1	4	2M
Ky89-09091	3.0	R	S	0	0	1

PRELIMINARY TEST IVB, 1992

REGIONAL SUMMARY

No. of Tests / Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 7 g/100	Composition Protein 4 %	Composition Oil 4 %
Flyer (E)	58.5	5	-4.9	1.4	34	1.6	14.9	41.7	20.2
Spencer (IV)	58.5	5	09/27*	1.5	36	2.1	17.7	41.3	21.1
Spry (L)	54.7	19	8.5	3.7	33	2.4	16.3	41.2	20.3
C1853	56.3	12	0.6	2.2	36	1.8	14.7	40.9	20.5
C1854	56.4	10	2.8	2.0	36	2.0	16.4	40.1	21.2
C1855	56.4	10	3.1	1.7	37	1.7	16.5	40.4	21.2
HS90-3490	57.4	9	-2.9	2.0	34	2.1	15.6	38.7	20.9
K1233	60.4	1	-0.8	2.1	37	2.1	16.8	40.7	21.5
K1234	54.2	24	-1.6	1.6	34	1.7	14.5	41.0	20.3
K1235	59.8	2	5.4	2.4	34	1.9	15.7	41.3	20.6
K1236	59.1	3	-0.1	1.5	35	2.0	15.4	40.5	20.8
K1237	58.9	4	2.5	1.8	37	2.1	18.9	40.8	21.1
K1238	57.7	8	3.4	2.0	35	1.9	17.2	39.2	21.0
K1239	56.2	13	7.5	2.7	40	2.2	17.0	41.1	20.7
Ky89-03155	54.3	22	2.6	2.4	38	1.7	14.8	40.8	20.5
Ky89-07047	54.7	19	3.8	2.3	39	2.3	17.6	41.1	20.7
Ky89-13054	53.2	25	8.8	2.0	42	2.3	16.3	41.7	20.8
Ripley (dtl)	55.9	14	-1.9	1.6	26	1.6	13.3	41.1	20.4
HC83-193	46.4	28	-5.6	1.9	24	2.2	17.2	44.0	18.7
HC85-2176	58.1	7	-3.6	1.2	22	1.9	19.2	42.6	20.1
HC87-6037	52.8	26	-3.1	1.4	22	1.8	19.1	40.8	20.4
HC88-11	55.7	15	-6.9	1.9	27	1.9	15.1	38.3	21.2
HC88-454	54.3	22	-2.6	1.0	21	2.0	17.7	41.0	21.4
HC88-461	49.2	27	-7.3	1.4	24	1.9	16.1	41.0	20.7
HC88-582	46.2	29	-8.9	1.5	21	1.8	14.6	39.6	20.8
HC89-50	54.9	17	-6.8	1.8	24	2.0	15.3	38.8	20.7
HC89-52	54.5	21	-7.8	1.9	25	2.1	15.7	39.0	20.8
HC89-62	54.8	18	-6.5	1.3	25	2.1	16.4	39.1	21.3
Ky89-09091	55.3	16	4.3	1.8	28	1.7	15.4	39.9	21.0

* 136.6 Days After Planting

PRELIMINARY TEST IVB, 1992

YIELD (bu/a)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	58.5	58.1	65.8	62.4	62.6	42.5	62.8	51.5	62.3
Spencer (IV)	58.5	49.7	69.3	59.8	65.3	44.4	60.6	52.7	66.1
Spry (L)	54.7	54.0	64.7	50.5	52.2	45.7	54.3	63.7	52.6
C1853	56.3	51.6	61.6	55.8	61.4	47.7	58.4	53.6	60.6
C1854	56.4	54.9	67.8	55.0	54.2	48.8	54.3	50.8	65.8
C1855	56.4	51.6	66.9	60.7	59.9	44.2	50.3	54.1	63.6
HS90-3490	57.4	55.2	65.9	54.0	65.6	41.9	59.9	53.3	63.5
K1233	60.4	62.4	67.9	64.5	63.7	40.6	58.6	60.1	65.4
K1234	54.2	57.7	63.4	58.8	54.5	35.0	58.6	42.8	62.8
K1235	59.8	59.6	67.4	56.5	59.9	48.1	58.4	62.9	65.5
K1236	59.1	63.5	65.4	55.1	61.6	40.3	56.1	62.0	68.5
K1237	58.9	54.7	65.0	54.6	60.4	45.2	57.8	66.5	67.0
K1238	57.7	51.3	65.7	60.2	61.0	50.4	56.1	49.7	67.3
K1239	56.2	45.1	61.8	47.9	59.1	47.7	56.7	67.9	63.2
Ky89-03155	54.3	53.7	62.0	54.2	56.9	43.6	57.1	49.2	57.5
Ky89-07047	54.7	47.5	63.7	53.0	58.4	45.9	51.0	59.8	58.0
Ky89-13054	53.2	43.5	58.4	50.7	53.0	52.8	56.1	53.6	57.5
Ripley (dtl)	55.9	54.7	59.0	59.4	62.8	33.1	55.3	61.9	60.8
HC83-193	46.4	52.2	45.9	47.4	55.2	29.3	47.7	36.0	57.6
HC85-2176	58.1	63.7	62.5	58.6	62.2	38.8	52.8	58.6	67.9
HC87-6037	52.8	58.8	64.0	46.4	65.2	36.6	57.3	27.3	67.0
HC88-11	55.7	54.1	63.7	64.0	65.5	26.8	54.7	47.1	69.4
HC88-454	54.3	57.0	55.5	55.9	61.8	22.7	65.1	44.6	72.0
HC88-461	49.2	58.5	61.4	46.8	59.2	33.1	53.0	25.1	56.5
HC88-582	46.2	54.8	57.5	49.9	55.4	32.3	49.9	6.6	63.5
HC89-50	54.9	48.8	55.1	62.7	60.6	29.7	57.0	60.2	65.1
HC89-52	54.5	56.0	54.0	59.1	58.5	31.9	56.9	56.6	62.9
HC89-62	54.8	51.5	60.9	58.5	58.6	22.1	64.3	53.4	68.9
Ky89-09091	55.3	58.6	53.5	46.4	60.2	41.1	57.3	62.5	63.0
C.V. (%)		9.6	4.4	7.1	5.4	9.7	8.2	14.1	5.2
L.S.D. (5%)		10.7	5.5	8.1	4.2	7.8	9.5	14.9	6.8
Row Sp. (In.)		30	30	30	30	30	30	15	7
Rows/Plot		4	4	4	4	4	4	6	8
Reps		2	2	2	2	2	2	2	2

PRELIMINARY TEST IVB, 1992

YIELD RANK

Strain	Yield Rank	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	5	8	7	4	7	13	3	19	21
Spencer (IV)	5	25	1	7	3	10	4	18	9
Spry (L)	19	18	11	23	29	8	22	3	29
C1853	12	21	19	15	11	5	8	14	23
C1854	10	13	3	17	27	3	22	20	10
C1855	10	21	5	5	16	11	27	13	14
HS90-3490	9	12	6	20	1	14	5	17	15
K1233	1	3	2	1	5	16	6	9	12
K1234	24	9	15	10	26	20	6	25	20
K1235	2	4	4	13	16	4	8	4	11
K1236	3	2	9	16	10	17	17	6	4
K1237	4	15	10	18	14	9	10	2	7
K1238	8	24	8	6	12	2	19	21	6
K1239	13	28	18	25	19	5	16	1	17
Ky89-03155	22	19	17	19	23	12	13	22	26
Ky89-07047	19	27	13	21	22	7	26	10	24
Ky89-13054	25	29	23	22	28	1	17	14	26
Ripley (dtl)	14	15	22	8	6	21	20	7	22
HC83-193	28	20	29	26	25	26	29	26	25
HC85-2176	7	1	16	11	8	18	25	11	5
HC87-6037	26	5	12	28	4	19	11	27	7
HC88-11	15	17	13	2	2	27	21	23	2
HC88-454	22	10	25	14	9	28	1	24	1
HC88-461	27	7	20	27	18	21	24	28	28
HC88-582	29	14	24	24	24	23	28	29	15
HC89-50	17	26	26	3	13	25	14	8	13
HC89-52	21	11	27	9	21	24	15	12	19
HC89-62	18	23	21	12	20	29	2	16	3
Ky89-09091	16	6	28	28	15	15	11	5	18

PRELIMINARY TEST IVB, 1992

MATURITY (date)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	-4.9	-7	-4	-4	-7	-7	-1	-5	-4
Spencer (IV)	09/27	09/25	09/28	09/27	10/05	10/03	09/13	09/26	09/30
Spry (L)	8.5	11	12	8	7	4	9	7	10
C1853	0.6	1	1	-1	2	-1	2	2	-1
C1854	2.8	5	7	1	0	3	3	2	1
C1855	3.1	5	7	4	0	2	3	2	2
HS90-3490	-2.9	-3	-4	-3	-2	-4	-2	-2	-3
K1233	-0.8	-1	5	-2	-2	-5	0	-1	0
K1234	-1.6	-3	4	-1	-2	-3	2	-4	-6
K1235	5.4	8	10	2	7	5	2	5	4
K1236	-0.1	0	6	1	-2	-3	1	-3	-1
K1237	2.5	1	8	0	5	-2	4	1	3
K1238	3.4	5	8	1	5	3	3	-1	3
K1239	7.5	8	11	5	7	5	10	5	9
Ky89-03155	2.6	3	8	1	7	-1	1	1	1
Ky89-07047	3.8	5	8	0	7	-1	4	2	5
Ky89-13054	8.8	11	10	7	7	6	10	8	11
Ripley (dtl)	-1.9	-4	-2	-2	-4	-2	-4	0	3
HC83-193	-5.6	-6	-4	-7	-2	-10	-6	-6	-4
HC85-2176	-3.6	-4	-5	-4	-4	-4	-6	-2	0
HC87-6037	-3.1	3	-3	-5	0	-6	-6	-6	-2
HC88-11	-6.9	-5	-6	-8	-5	-10	-9	-8	-4
HC88-454	-2.6	1	-4	-1	-2	-5	-5	-6	1
HC88-461	-7.3	-5	-6	-6	-7	-11	-7	-7	-9
HC88-582	-8.9	-8	-9	-5	-7	-10	-10	-13	-9
HC89-50	-6.8	-8	-8	-7	-9	-11	-2	-7	-2
HC89-52	-7.8	-7	-8	-8	-9	-12	-9	-7	-2
HC89-62	-6.5	-5	-8	-6	-6	-10	-8	-6	-3
Ky89-09091	4.3	4	8	-2	5	4	4	3	8
Date Planted	05/13	05/19	05/07	05/21	05/21	05/28	04/30	05/07	05/05
Days to Mature	136.6	129	144	129	137	128	136	142	148

PRELIMINARY TEST IVB, 1992

LODGING (score)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.4	1.5	1.0	1.0	2.0	1.3	2.0	1.1	1.3
Spencer (IV)	1.5	1.5	1.5	1.0	1.0	1.8	2.0	1.0	2.0
Spry (L)	3.7	4.2	4.0	4.0	4.0	3.5	4.0	1.6	4.0
C1853	2.2	1.8	2.5	2.0	2.0	2.0	2.8	1.2	3.0
C1854	2.0	1.8	1.5	3.0	2.0	2.0	2.3	1.0	2.3
C1855	1.7	1.2	1.5	2.0	2.0	2.0	2.3	1.1	1.5
HS90-3490	2.0	2.0	1.5	2.0	2.0	1.0	2.8	1.1	3.5
K1233	2.1	2.2	2.0	1.5	3.0	1.8	2.5	1.2	2.5
K1234	1.6	1.0	1.5	1.5	2.0	1.8	2.3	1.1	1.8
K1235	2.4	3.0	3.0	2.0	3.0	1.8	2.5	1.2	2.8
K1236	1.5	1.0	2.0	1.5	2.0	1.5	1.8	1.1	1.3
K1237	1.8	2.0	2.0	1.5	2.0	1.5	2.0	1.2	2.0
K1238	2.0	2.5	2.5	1.5	2.0	2.0	2.3	1.1	1.8
K1239	2.7	3.8	2.5	1.5	3.0	3.0	3.3	1.4	2.8
Ky89-03155	2.4	2.0	2.0	3.0	3.0	2.0	2.8	1.1	3.3
Ky89-07047	2.3	2.0	2.5	3.0	2.0	2.0	3.0	1.2	3.0
Ky89-13054	2.0	2.0	1.5	3.0	2.0	2.3	2.5	1.1	1.8
Ripley (dtl)	1.6	1.2	1.5	2.0	2.0	1.0	1.8	1.1	2.3
HC83-193	1.9	2.0	2.5	1.5	2.0	1.0	3.5	1.0	2.0
HC85-2176	1.2	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.5
HC87-6037	1.4	1.5	1.0	2.0	2.0	1.0	1.3	1.0	1.3
HC88-11	1.9	1.8	2.0	1.0	3.0	1.0	2.8	1.0	2.5
HC88-454	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
HC88-461	1.4	1.5	1.0	1.0	2.0	1.5	1.5	1.0	1.8
HC88-582	1.5	1.5	1.5	2.0	2.0	1.5	1.0	1.0	1.5
HC89-50	1.8	1.2	1.0	2.0	3.0	1.5	1.5	1.1	3.0
HC89-52	1.9	3.0	1.0	2.0	2.0	2.0	2.0	1.0	2.3
HC89-62	1.3	1.0	1.0	1.5	2.0	1.0	1.3	1.0	1.3
Ky89-09091	1.8	2.2	2.0	1.5	2.0	1.0	1.8	1.1	2.8

PRELIMINARY TEST IVB, 1992

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	34	39	41	34	38	23	32	30	34
Spencer (IV)	36	41	46	34	41	22	33	30	40
Spry (L)	33	50	28	24	38	23	27	31	42
C1853	36	43	42	33	41	26	35	32	35
C1854	36	44	45	35	38	26	34	27	40
C1855	37	40	45	38	42	25	33	31	42
HS90-3490	34	38	40	37	35	23	33	30	38
K1233	37	42	45	33	40	24	38	33	44
K1234	34	40	42	35	37	20	34	25	37
K1235	34	41	41	32	35	23	34	29	39
K1236	35	40	42	32	38	21	37	31	38
K1237	37	44	42	34	39	25	36	36	40
K1238	35	46	41	36	32	27	36	26	38
K1239	40	46	47	36	41	29	41	35	43
Ky89-03155	38	47	45	37	41	24	39	30	44
Ky89-07047	39	50	45	31	39	26	40	33	45
Ky89-13054	42	49	48	41	44	31	41	34	47
Ripley (dtl)	26	30	28	28	28	15	23	25	29
HC83-193	24	30	26	21	27	15	25	17	28
HC85-2176	22	25	24	22	23	16	19	17	27
HC87-6037	22	28	25	26	25	14	18	10	27
HC88-11	27	32	31	29	33	13	26	20	32
HC88-454	21	27	22	22	22	11	19	17	24
HC88-461	24	30	24	31	28	14	22	14	26
HC88-582	21	26	27	22	26	16	18	10	26
HC89-50	24	28	29	21	26	13	25	20	30
HC89-52	25	28	29	24	27	16	23	20	30
HC89-62	25	30	29	28	26	12	25	17	31
Ky89-09091	28	32	32	29	30	16	25	27	33

PRELIMINARY TEST IVB, 1992

SEED QUALITY (score)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.6	1.0	1.2	2.0	1.0	1.5	3.0	1.2	1.5
Spencer (IV)	2.1	2.0	1.2	3.0	2.0	3.3	3.0	1.3	1.3
Spry (L)	2.4	2.0	1.2	3.0	2.0	2.3	4.0	1.3	3.0
C1853	1.8	1.0	1.2	2.0	2.0	2.8	2.0	1.5	2.0
C1854	2.0	2.0	1.2	3.0	1.0	2.8	2.0	1.4	2.5
C1855	1.7	1.0	1.2	2.0	1.0	3.3	2.0	1.3	2.0
HS90-3490	2.1	2.0	1.2	3.0	2.0	2.5	3.0	1.3	2.0
K1233	2.1	2.0	1.2	3.0	1.0	3.5	3.0	1.2	2.0
K1234	1.7	1.0	1.2	2.0	1.0	2.8	3.0	1.4	1.5
K1235	1.9	1.0	1.2	2.0	2.0	2.8	3.0	1.0	2.3
K1236	2.0	2.0	1.2	2.0	2.0	2.0	3.0	1.4	2.0
K1237	2.1	2.0	1.2	2.0	2.0	3.0	3.0	1.3	2.0
K1238	1.9	2.0	1.2	3.0	1.0	2.3	3.0	1.2	1.5
K1239	2.2	2.0	1.2	3.0	1.0	2.3	4.0	1.4	2.5
Ky89-03155	1.7	2.0	1.2	2.0	2.0	1.8	2.0	1.2	1.3
Ky89-07047	2.3	2.0	1.2	4.0	2.0	2.0	4.0	1.2	2.3
Ky89-13054	2.3	2.0	1.6	4.0	1.0	2.3	3.0	1.3	3.0
Ripley (dtl)	1.6	1.0	1.4	3.0	1.0	2.3	2.0	1.0	1.3
HC83-193	2.2	2.0	1.2	4.0	1.0	3.0	3.0	1.5	1.5
HC85-2176	1.9	2.0	1.2	3.0	1.0	2.5	3.0	1.0	1.5
HC87-6037	1.8	1.0	1.2	3.0	1.0	2.8	3.0	1.2	1.3
HC88-11	1.9	2.0	1.2	3.0	1.0	3.0	2.0	1.2	2.0
HC88-454	2.0	1.0	1.2	3.0	2.0	2.5	3.0	1.2	2.0
HC88-461	1.9	2.0	1.2	3.0	1.0	2.5	3.0	1.2	1.2
HC88-582	1.8	2.0	1.2	3.0	1.0	2.0	3.0	1.2	1.3
HC89-50	2.0	2.0	1.2	3.0	1.0	3.3	2.0	1.2	2.0
HC89-52	2.1	2.0	1.2	3.0	2.0	3.0	2.0	1.3	2.0
HC89-62	2.1	2.0	1.2	4.0	1.0	2.8	2.0	1.2	2.5
Ky89-09091	1.7	1.0	1.2	2.0	1.0	2.5	3.0	1.0	1.5

PRELIMINARY TEST IVB, 1992

SEED SIZE (g/100)

Strain	Mean 7 Tests	Belle-ville IL	Urbana IL	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	14.9	15.1	15.5	14.5	16.3	14.7	13.0		15.3
Spencer (IV)	17.7	18.8	19.2	16.8	18.0	18.8	13.0		19.4
Spry (L)	16.3	17.0	17.9	16.2	17.5	16.8	13.0		15.8
C1853	14.7	14.3	14.0	13.9	16.8	15.8	13.0		15.0
C1854	16.4	16.8	17.2	16.3	17.6	17.8	12.0		16.9
C1855	16.5	16.9	17.8	16.8	17.4	17.0	12.0		17.6
HS90-3490	15.6	15.6	16.6	15.3	17.1	15.8	13.0		15.6
K1233	16.8	17.6	16.7	16.5	18.1	17.3	15.0		16.3
K1234	14.5	14.7	15.2	14.6	15.7	13.6	13.0		14.5
K1235	15.7	16.4	17.0	14.2	16.9	16.0	13.0		16.4
K1236	15.4	15.8	15.9	15.3	16.4	15.8	13.0		15.8
K1237	18.9	18.0	20.8	20.5	20.1	19.6	14.0		19.2
K1238	17.2	16.6	18.2	15.8	19.7	18.3	14.0		17.6
K1239	17.0	16.6	18.4	15.6	18.4	17.8	14.0		17.9
Ky89-03155	14.8	15.6	15.8	15.1	15.8	14.3	12.0		15.1
Ky89-07047	17.6	18.2	18.7	17.7	18.8	18.4	14.0		17.7
Ky89-13054	16.3	15.3	17.8	17.2	17.1	17.4	13.0		16.6
Ripley (dtl)	13.3	13.4	12.9	13.0	14.3	13.4	12.0		13.9
HC83-193	17.2	18.2	17.7	16.5	19.1	17.6	13.0		18.6
HC85-2176	19.2	20.6	19.4	19.7	21.5	18.6	14.0		20.4
HC87-6037	19.1	18.8	19.6	19.0	20.0	17.9	20.0		18.1
HC88-11	15.1	15.8	14.7	16.3	16.7	14.4	13.0		14.9
HC88-454	17.7	19.4	17.7	17.4	19.7	16.6	14.0		19.1
HC88-461	16.1	17.6	16.6	15.8	16.7	15.5	15.0		15.4
HC88-582	14.6	15.6	13.9	14.9	15.5	14.1	13.0		15.2
HC89-50	15.3	15.2	13.9	16.3	16.7	14.9	14.0		16.0
HC89-52	15.7	16.5	15.0	16.2	17.3	15.1	13.0		16.5
HC89-62	16.4	17.1	16.6	17.1	17.9	14.7	14.0		17.6
Ky89-09091	15.4	15.9	14.3	15.0	17.3	15.9	13.0		16.1

PRELIMINARY TEST IVB, 1992

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH
Flyer (E)	41.7	41.5	41.0	42.0	42.4
Spencer (IV)	41.3	41.0	41.0	41.1	42.0
Spry (L)	41.2	40.6	40.5	40.6	43.0
C1853	40.9	40.1	40.8	40.8	42.0
C1854	40.1	39.5	40.8	39.6	40.6
C1855	40.4	39.6	40.5	40.1	41.5
HS90-3490	38.7	39.3	37.7	39.0	38.7
K1233	40.7	40.1	40.5	40.8	41.5
K1234	41.0	41.1	40.7	41.3	40.7
K1235	41.3	40.6	41.9	41.5	41.3
K1236	40.5	40.0	40.3	41.2	40.4
K1237	40.8	40.5	41.2	40.0	41.4
K1238	39.2	38.6	39.6	40.0	38.6
K1239	41.1	40.0	41.6	41.3	41.6
Ky89-03155	40.8	40.0	40.6	42.2	40.3
Ky89-07047	41.1	40.5	41.0	41.2	41.6
Ky89-13054	41.7	41.2	41.0	42.4	42.2
Ripley (dtl)	41.1	38.6	38.9	46.1	40.9
HC83-193	44.0	45.7	43.7	41.6	45.0
HC85-2176	42.6	42.4	42.2	41.6	44.2
HC87-6037	40.8	41.3	40.8	41.0	40.1
HC88-11	38.3	37.7	39.0	38.0	38.6
HC88-454	41.0	41.2	40.7	40.9	41.1
HC88-461	41.0	41.7	40.4	40.7	41.0
HC88-582	39.6	39.1	39.5	40.0	39.8
HC89-50	38.8	38.5	38.7	38.3	39.7
HC89-52	39.0	39.3	38.2	38.6	39.8
HC89-62	39.1	39.1	38.8	38.8	39.5
Ky89-09091	39.9	40.0	39.6	39.6	40.5

PRELIMINARY TEST IVB, 1992

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Manhattan KS	Lexington KY	Mt. Orab OH
Flyer (E)	20.2	20.3	20.5	20.1	19.9
Spencer (IV)	21.1	21.5	21.2	20.7	21.0
Spry (L)	20.3	20.2	21.1	20.3	19.4
C1853	20.5	20.9	20.7	20.6	19.8
C1854	21.2	21.5	20.8	21.2	21.4
C1855	21.2	21.4	21.4	20.8	21.0
HS90-3490	20.9	20.6	21.0	20.6	21.3
K1233	21.5	21.4	21.9	21.2	21.4
K1234	20.3	20.1	20.6	19.6	20.8
K1235	20.6	20.5	20.4	20.4	21.0
K1236	20.8	20.7	21.7	20.0	20.7
K1237	21.1	21.1	21.4	21.1	20.6
K1238	21.0	21.4	21.3	20.4	20.9
K1239	20.7	20.5	20.9	20.4	21.1
Ky89-03155	20.5	20.6	20.8	19.4	21.0
Ky89-07047	20.7	21.0	21.4	20.1	20.4
Ky89-13054	20.8	20.9	21.4	20.0	20.9
Ripley (dtl)	20.4	20.9	21.5	19.0	20.0
HC83-193	18.7	18.0	19.1	20.4	17.4
HC85-2176	20.1	20.4	20.8	20.2	19.0
HC87-6037	20.4	20.0	20.9	20.1	20.4
HC88-11	21.2	21.0	21.5	21.7	20.5
HC88-454	21.4	21.5	22.0	21.5	20.5
HC88-461	20.7	20.1	21.4	20.7	20.4
HC88-582	20.8	20.9	21.7	20.4	20.3
HC89-50	20.7	20.2	21.3	20.8	20.5
HC89-52	20.8	20.4	21.6	20.9	20.1
HC89-62	21.3	20.7	22.0	21.4	20.9
Ky89-09091	21.0	20.4	21.3	21.1	21.3